

SONY®

VIDEOCODER

BVH-2000PS BVH-2180PS



BVH-2000PS

The function control panel, side panels and handles in this photograph shown are optionally available.

Le panneau de contrôle des fonction, les panneaux latéraux et les poignées présentés sur cette photographie sont disponibles comme équipements en option.

Das hier abgebildete Bedienungspult, die Seitenteile und die Griffe sind gesondert lieferbares Zubehör.



OPERATION AND MAINTENANCE MANUAL Volume 2 3rd Edition (Revised 9)

BVH-2000PS Serial No. 33401 and Higher

BVH-2180PS Serial No. 10001 and Higher

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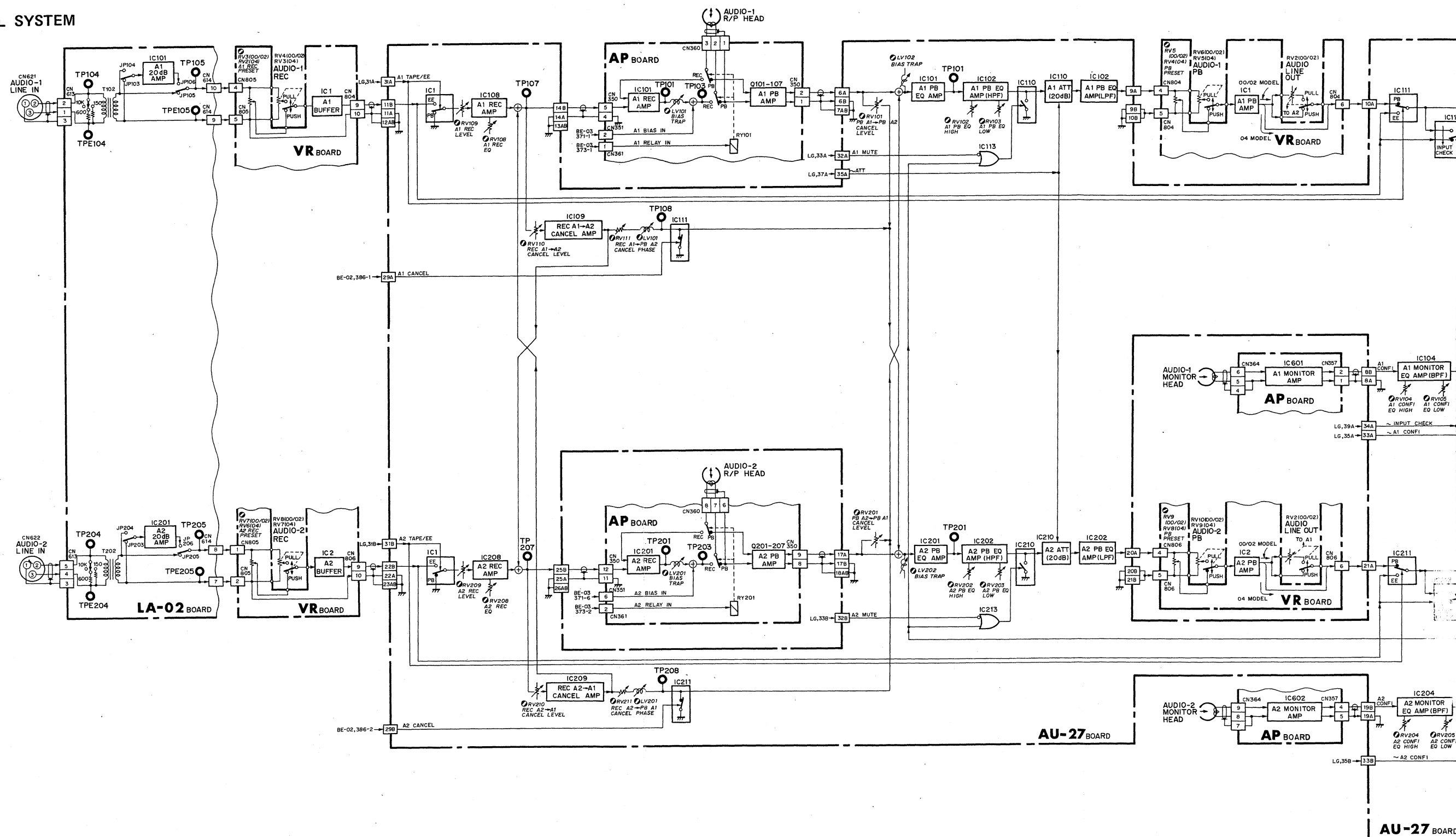
CONNECTOR PANEL

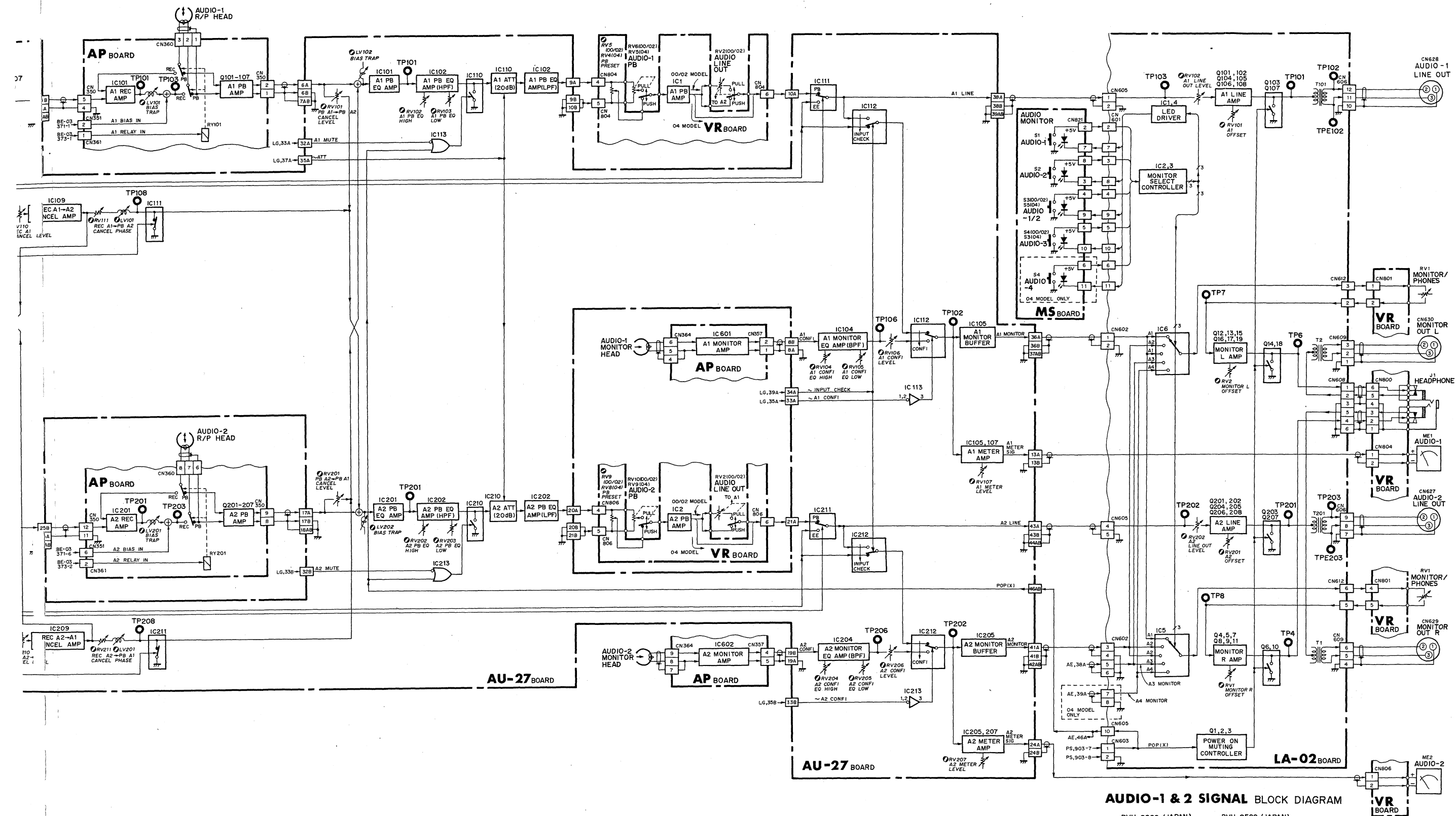
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E. CHANGED PARTS

AUDIO-1 & 2 SIGNAL SYSTEM

AU-27 BOARD
AP BOARD
LA-02 BOARD
VR BOARD
MS BOARD

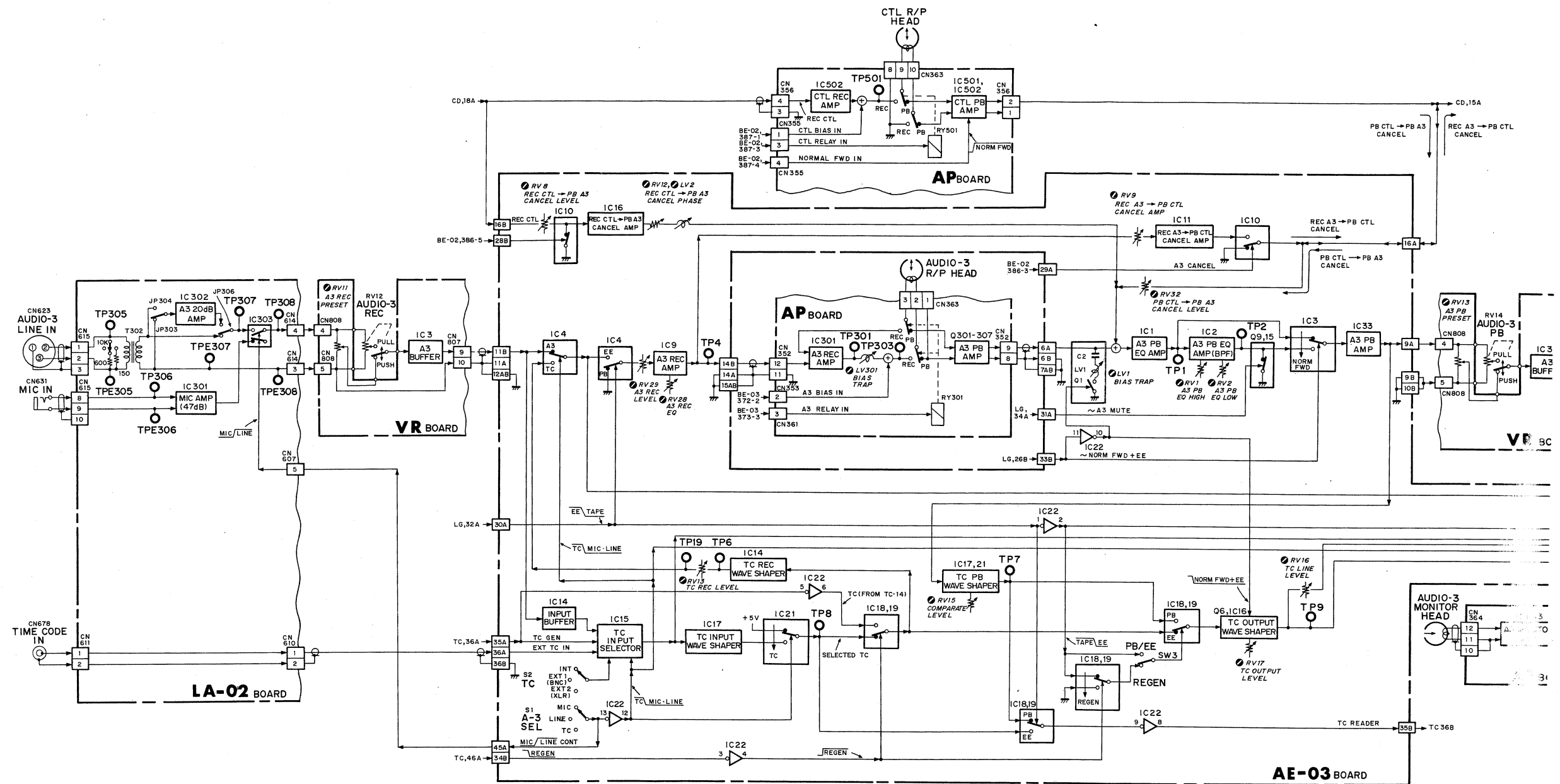


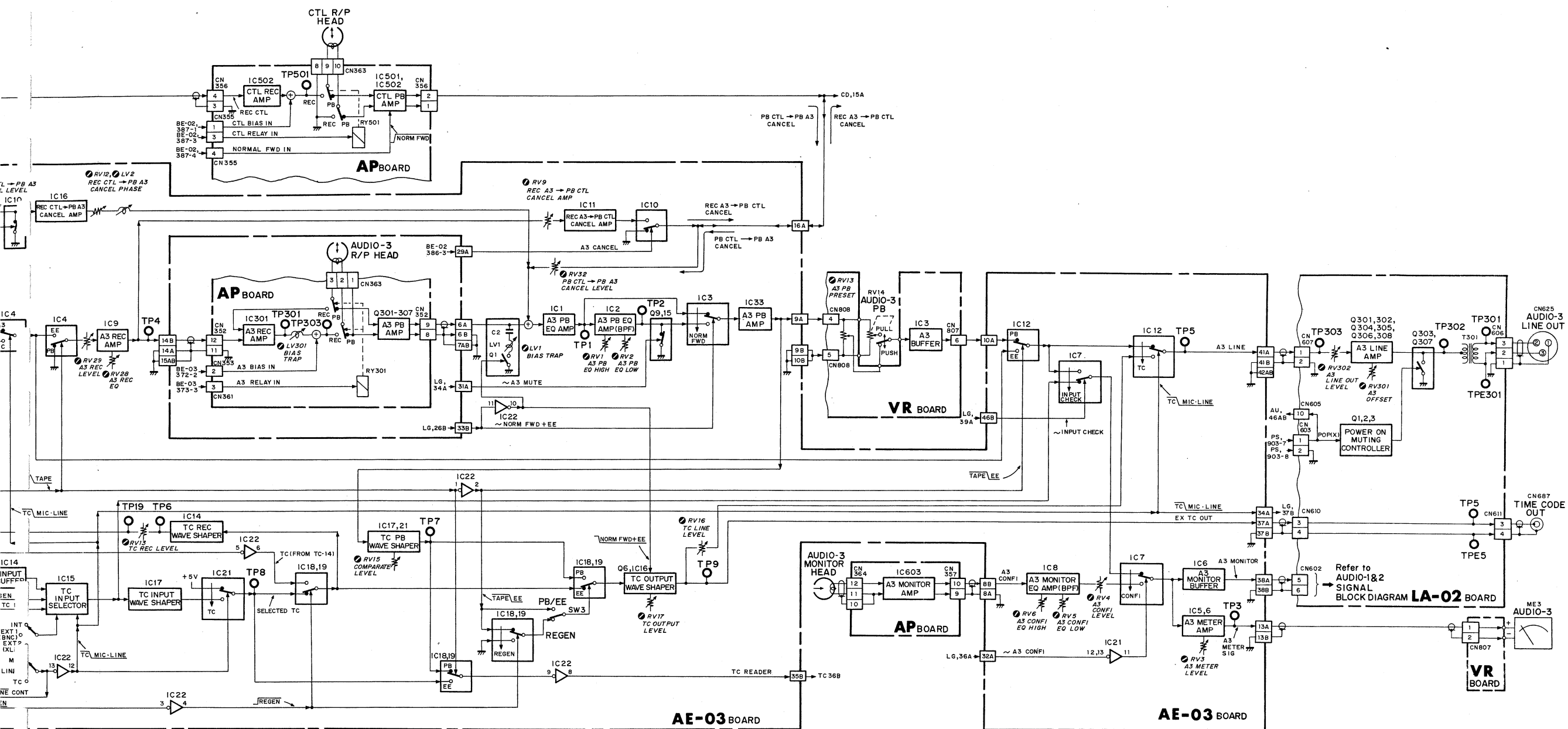
AUDIO-1 & 2 SIGNAL BLOCK DIAGRAM

BVH-2000 (JAPAN) BVH-2500 (JAPAN)
BVH-2000 (US/CANADA) BVH-2500 (US/CANADA)
BVH-2000PS (AEP) BVH-2500PS (AEP)
BVH-2000PM (BRZ)
BVH-2180 (JAPAN)
BVH-2180 (US/CANADA)
BVH-2180PS (AEP)
BVH-2180PM (BRZ)

AUDIO-3 SIGNAL SYSTEM

AE-03 BOARD
AP BOARD
LA-02 BOARD
VR BOARD





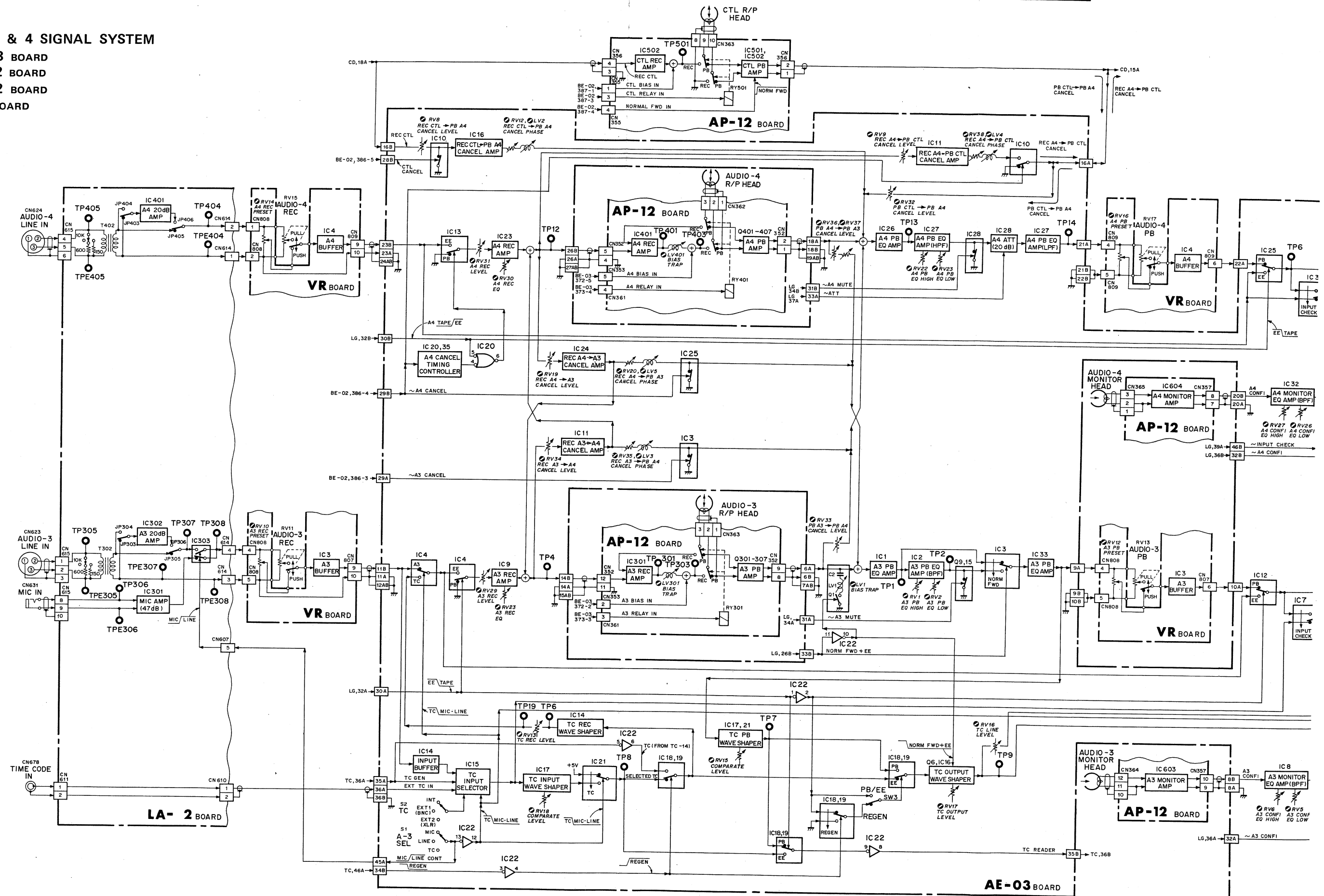
AUDIO-3 SIGNAL CTL REC/PB AMP TC SELECT

BLOCK DIAGRAM (00/10/02/12 MODEL)

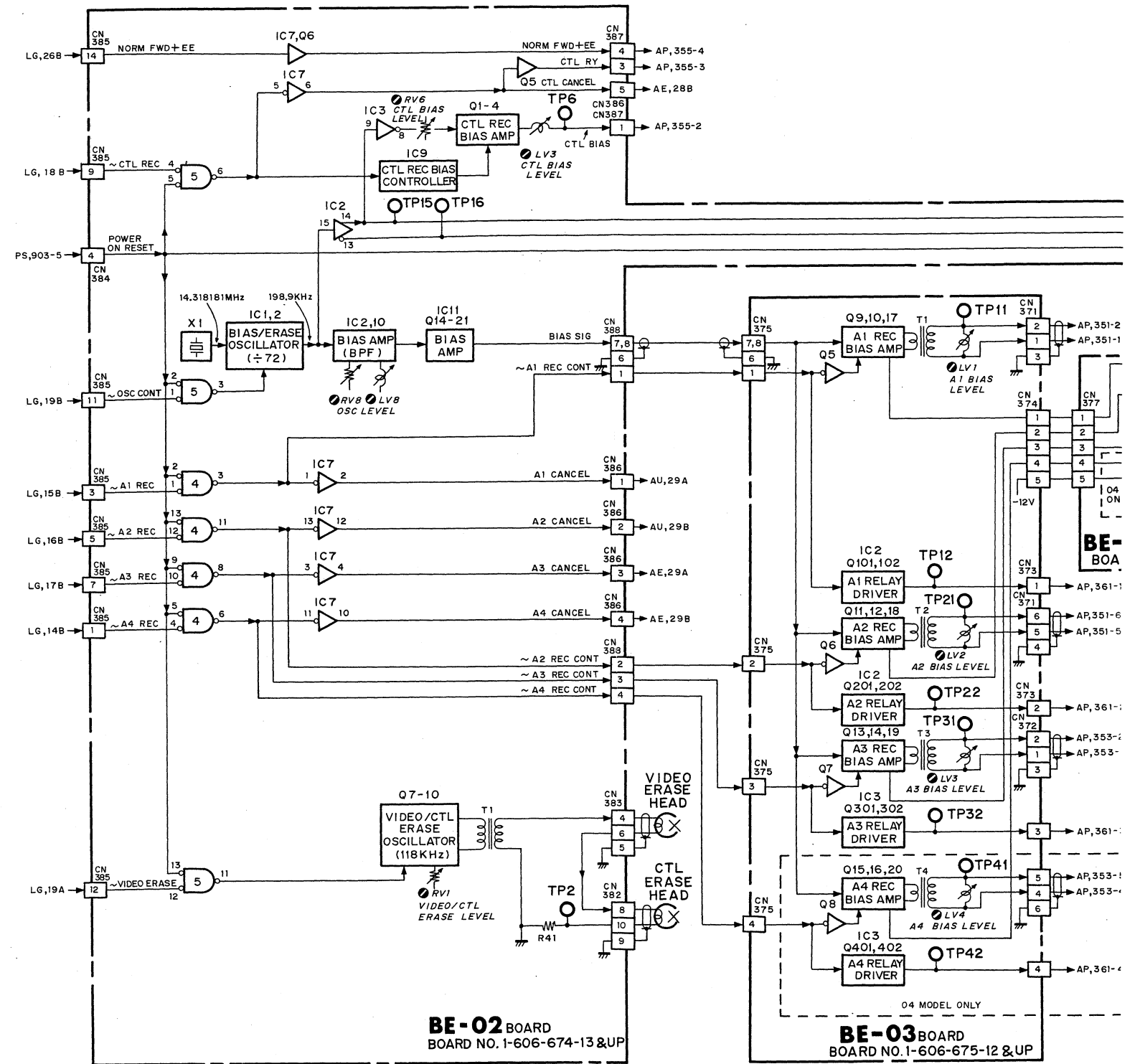
BVH-2000(J) ;# 10501-	BVH-2500(J) ;# 10001-
BVH-2000(U/C) ;# 10501-	BVH-2500(U/C) ;# 10001-
BVH-2000PS ;# 10301-	BVH-2500P ;# 10001-
BVH-2000PM ;# 10001-	
BVH-2180(J) ;# 10001-	
BVH-2180(U/C) ;# 10001-	
BVH-2180PS ;# 10001-	
BVH-2180PM ;# 10001-	

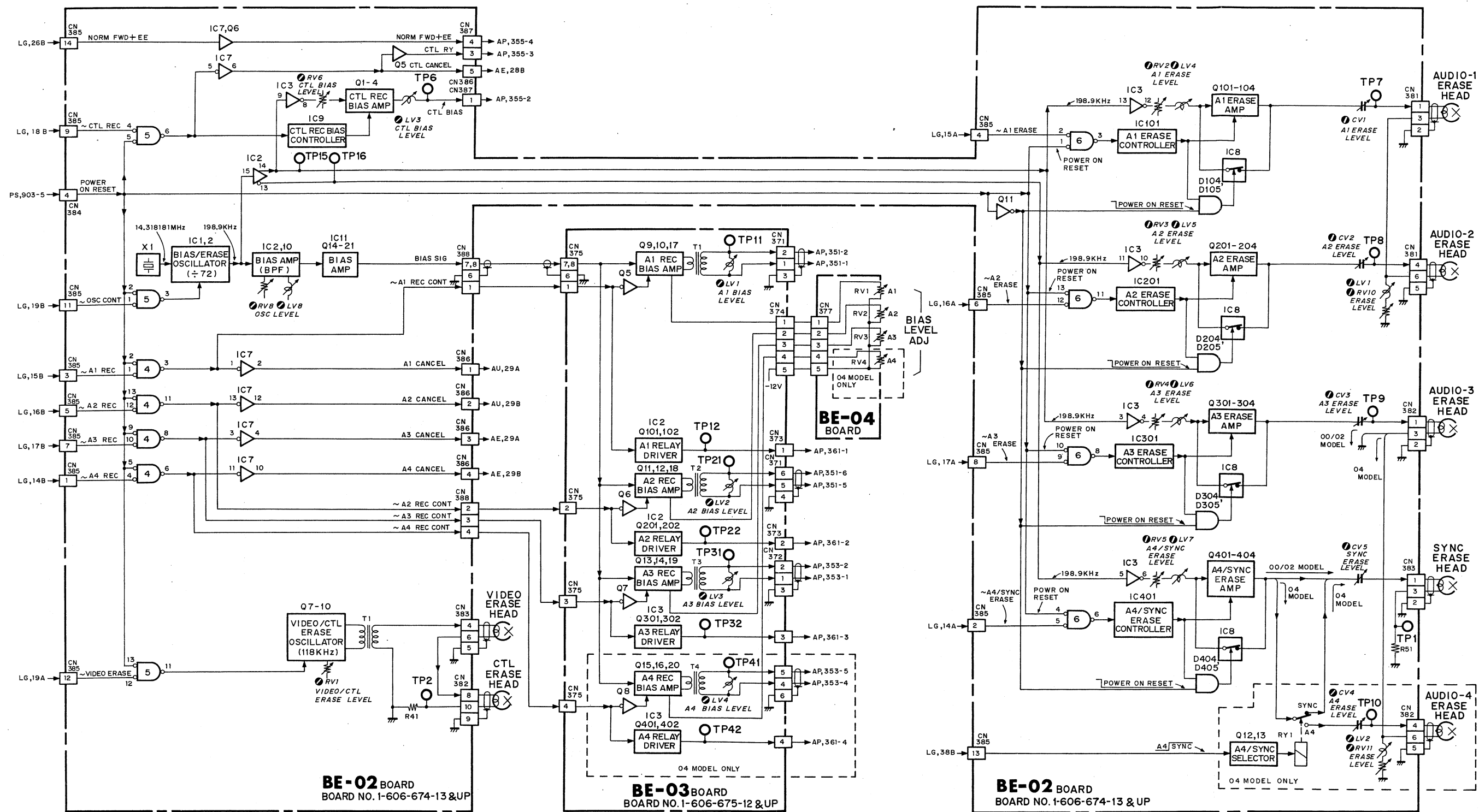
AUDIO-3 & 4 SIGNAL SYSTEM

AE-03 BOARD
AP-12 BOARD
LA-02 BOARD
VR BOARD



BIAS/ERASE
BE-02 BOARD
BE-03 BOARD
BE-04 BOARD





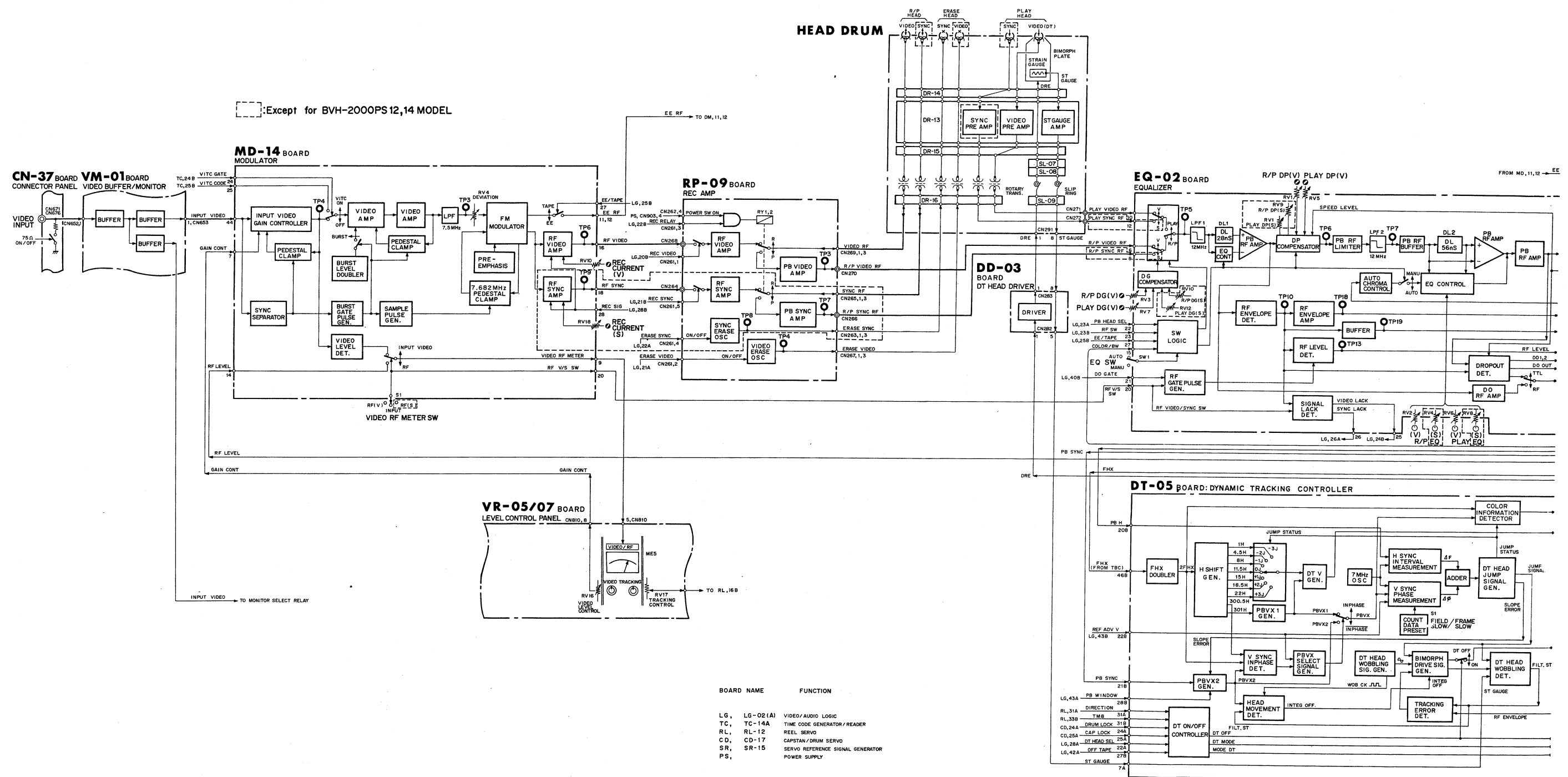
AUDIO BIAS/ERASE AMP VIDEO ERASE AMP

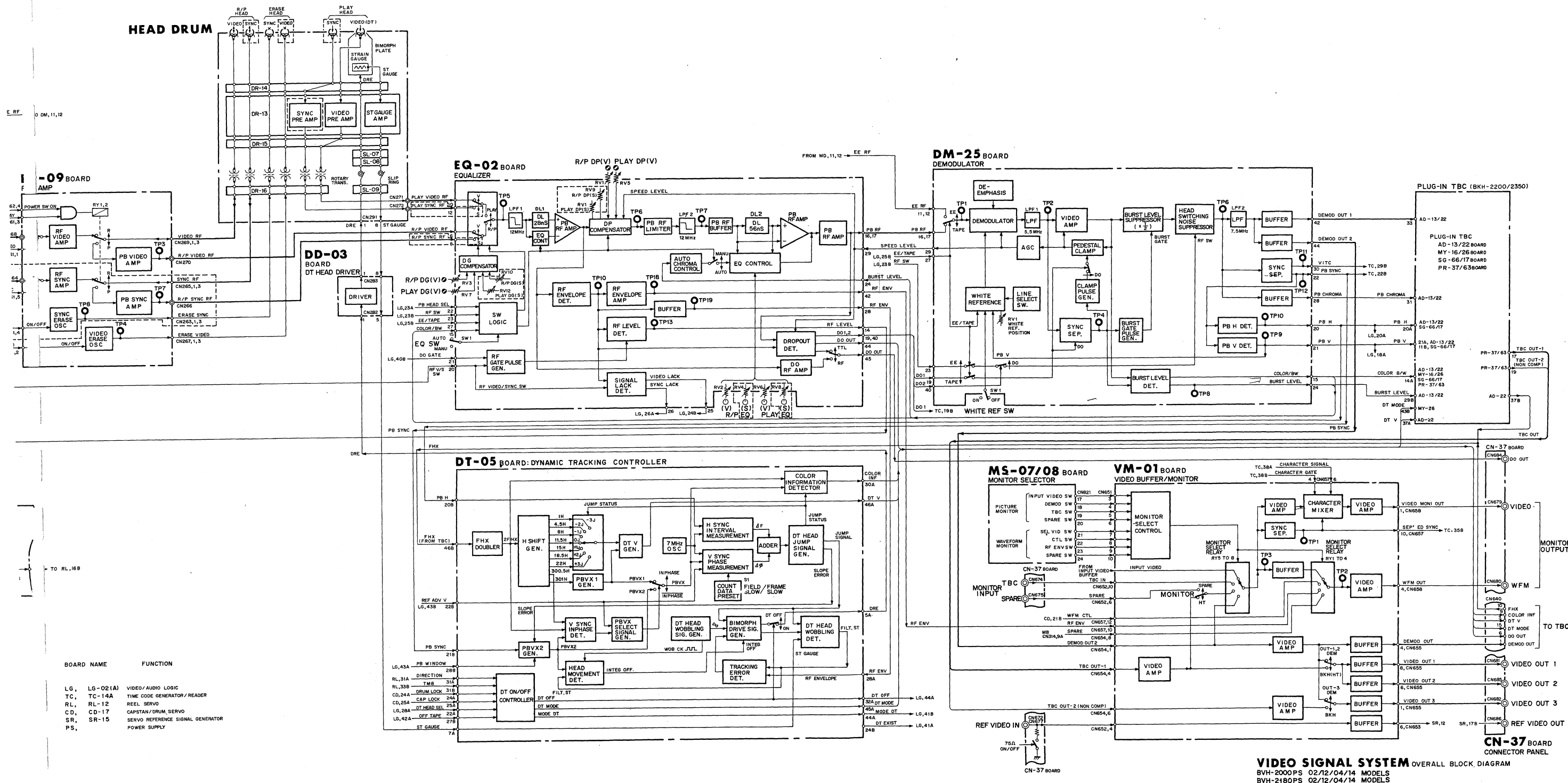
BLOCK DIAGRAM

BVH-2000(J) ;# 10501-	BVH-2500(J) ;# 10001-
BVH-2000(U/C) ;# 10501-	BVH-2500(U/C) ;# 10001-
BVH-2000PS ;# 10301-	BVH-2500P ;# 10001-
BVH-2000PM ;# 10001-	
BVH-2180(J) ;# 10001-	
BVH-2180(U/C) ;# 10001-	
BVH-2180PS ;# 10001-	
BVH-2180PM ;# 10001-	

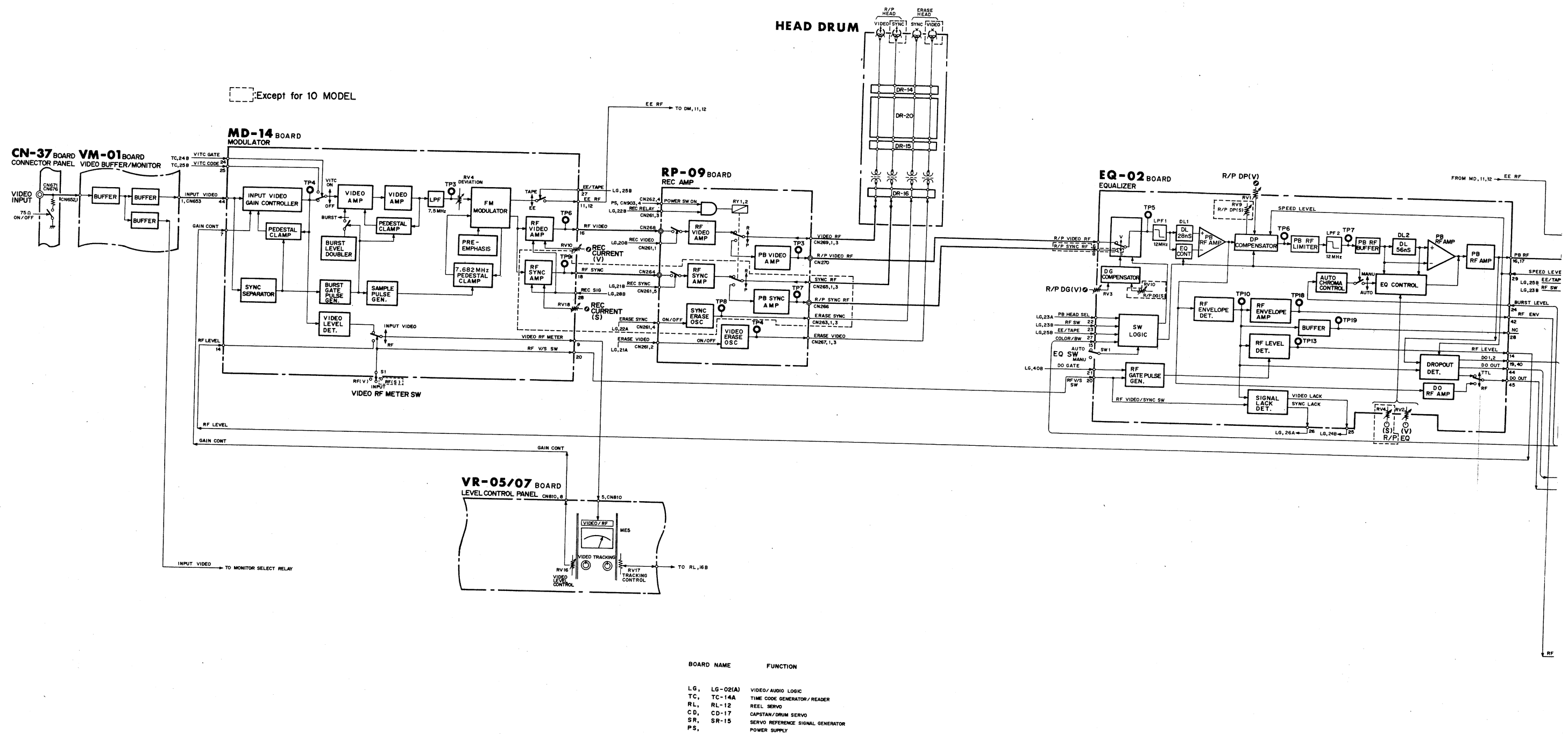
VIDEO SIGNAL SYSTEM OVERALL BLOCK DIAGRAM

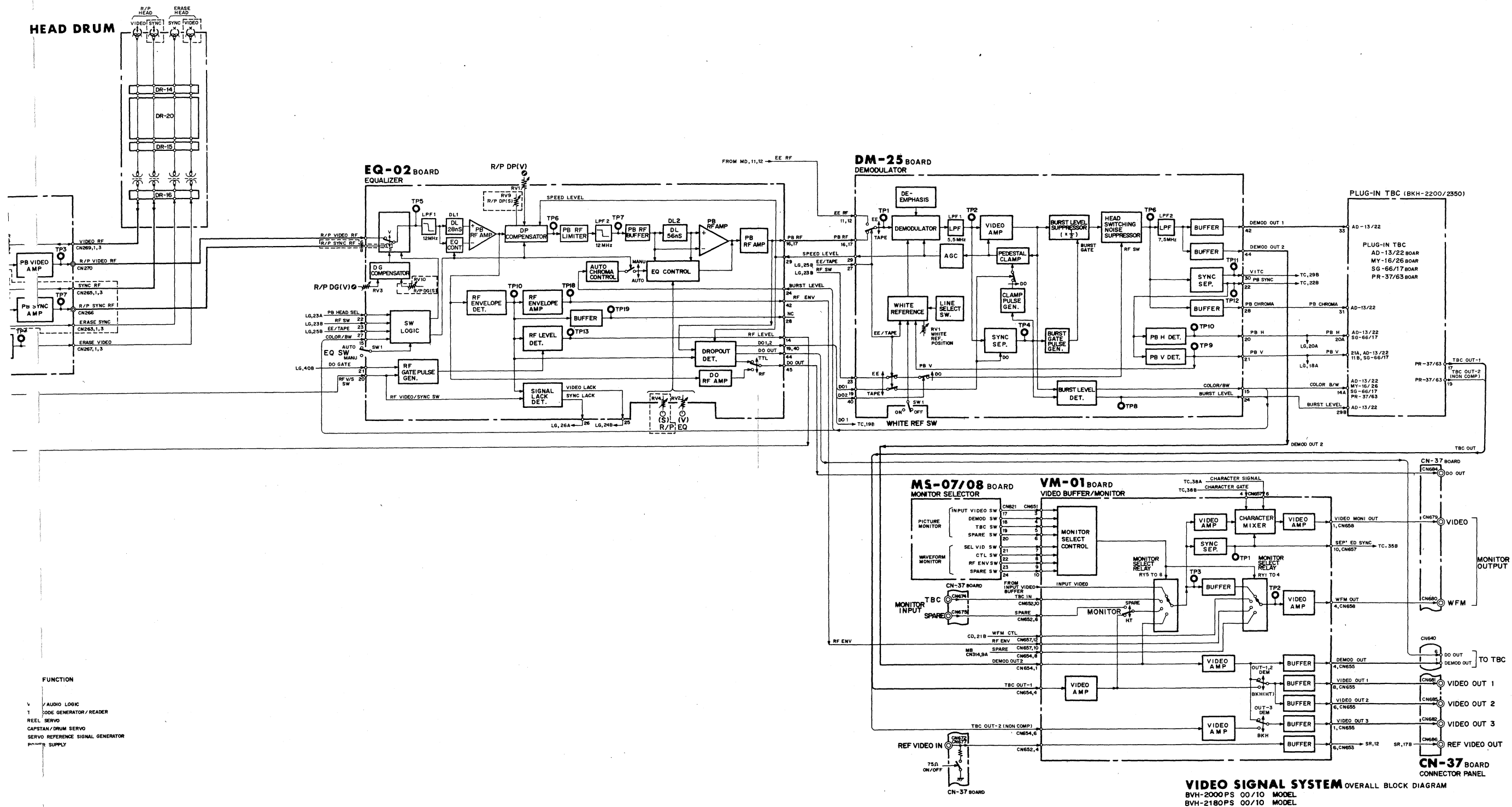
FOR 02/12/04/14 MODELS





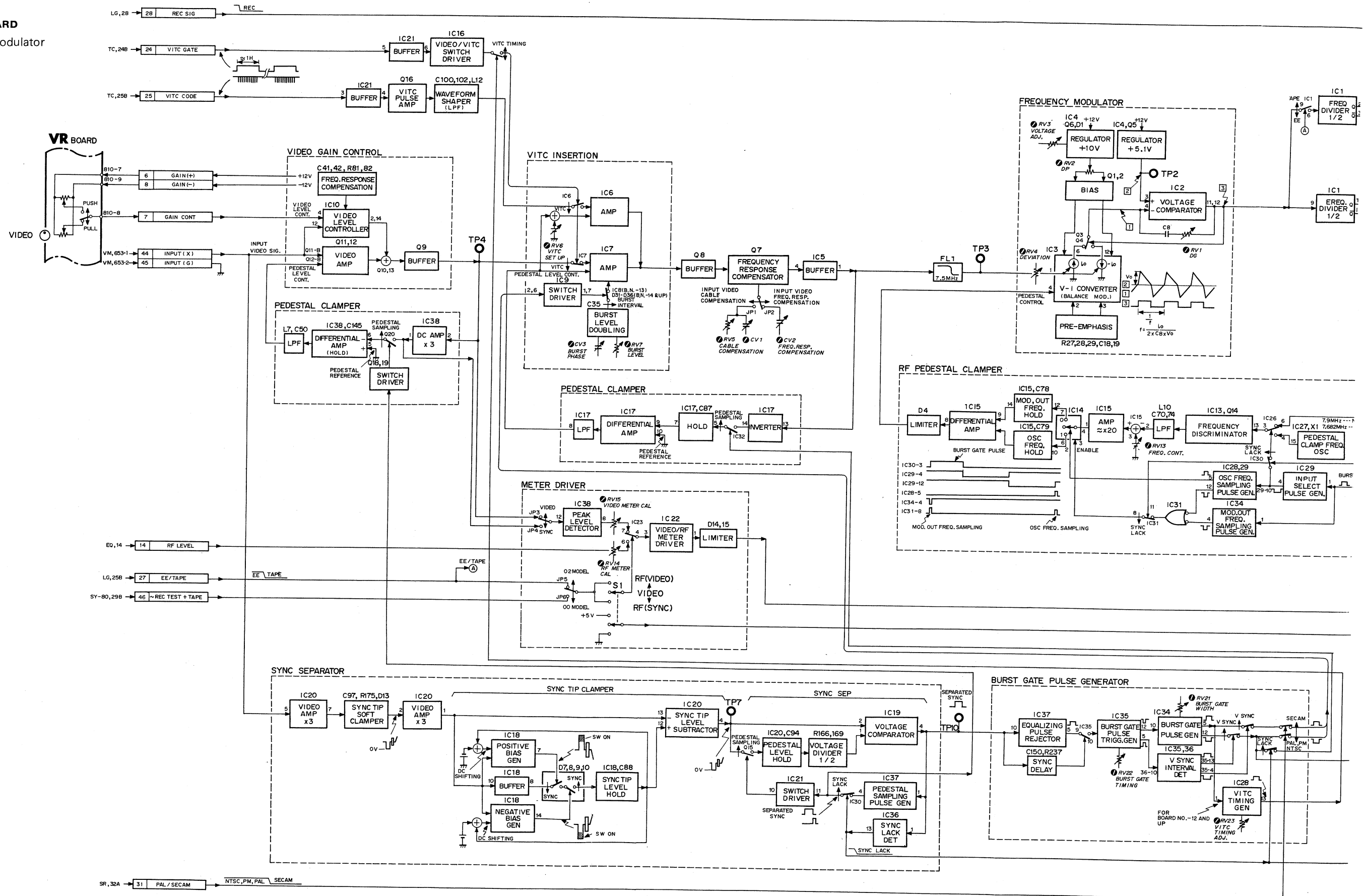
VIDEO SIGNAL SYSTEM OVERALL BLOCK DIAGRAM; FOR 00/10 MODEL





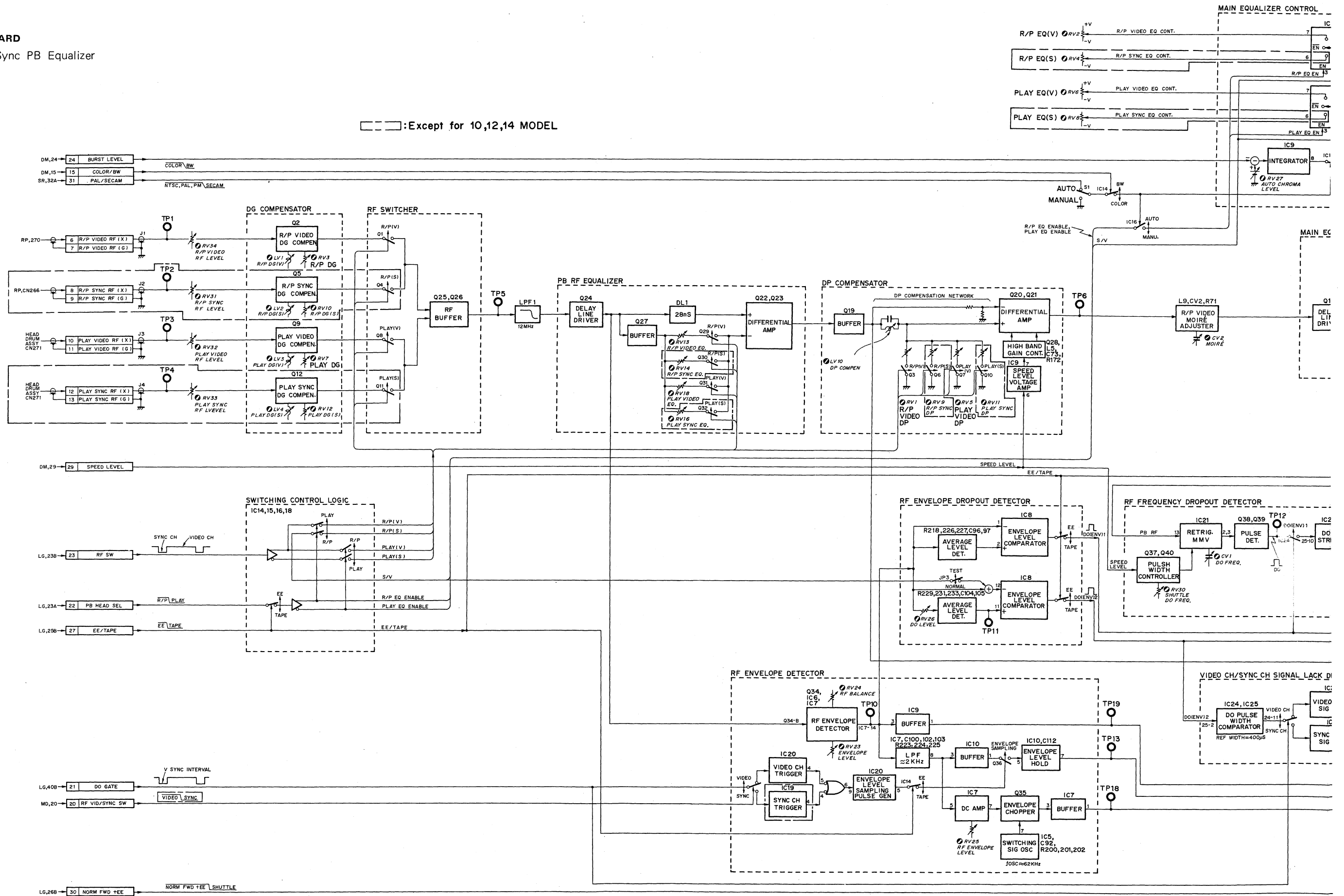
MD-14 BOARD

Video Modulator

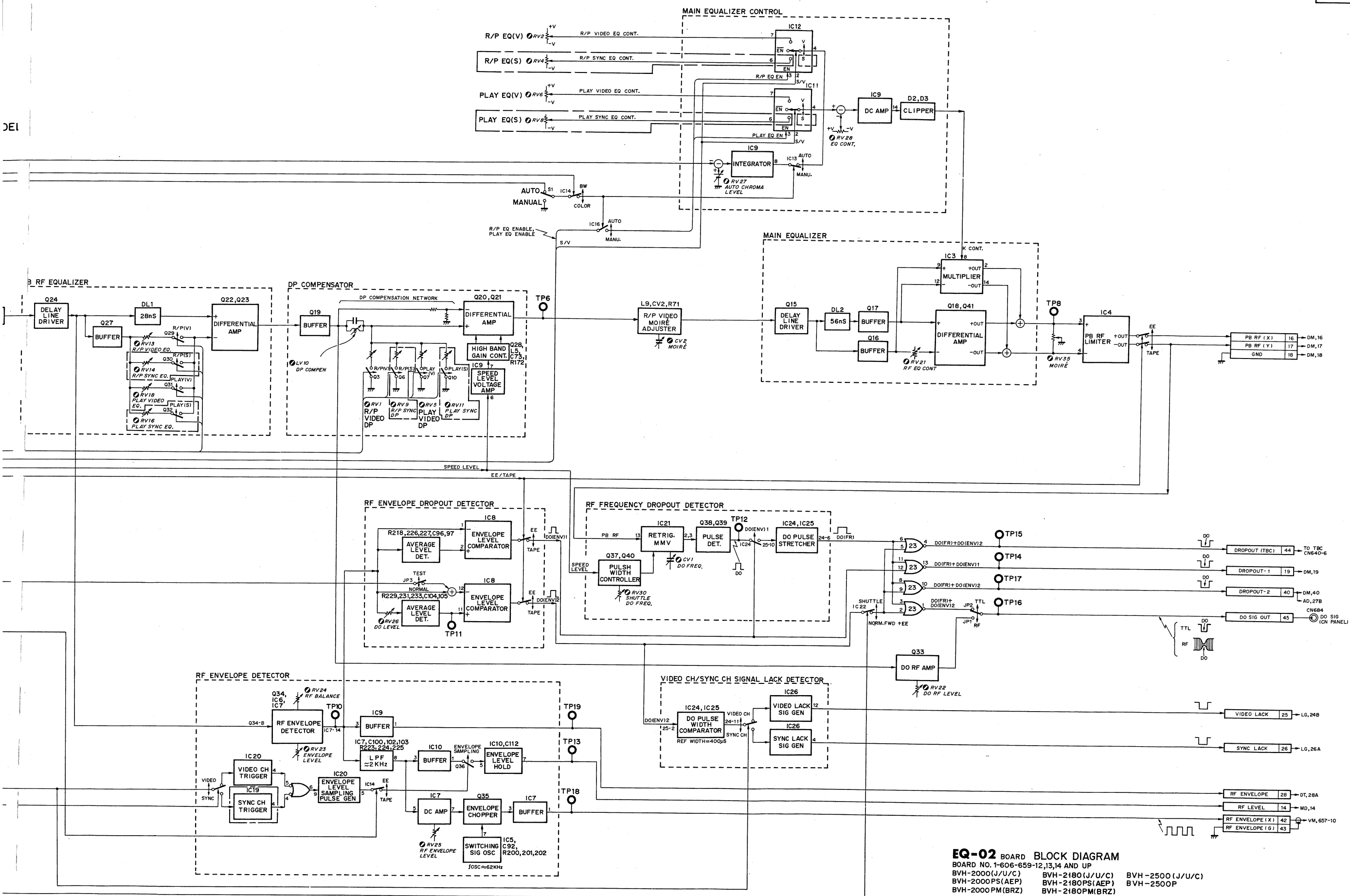


EQ-02 BOARD

Video/Sync PB Equalizer



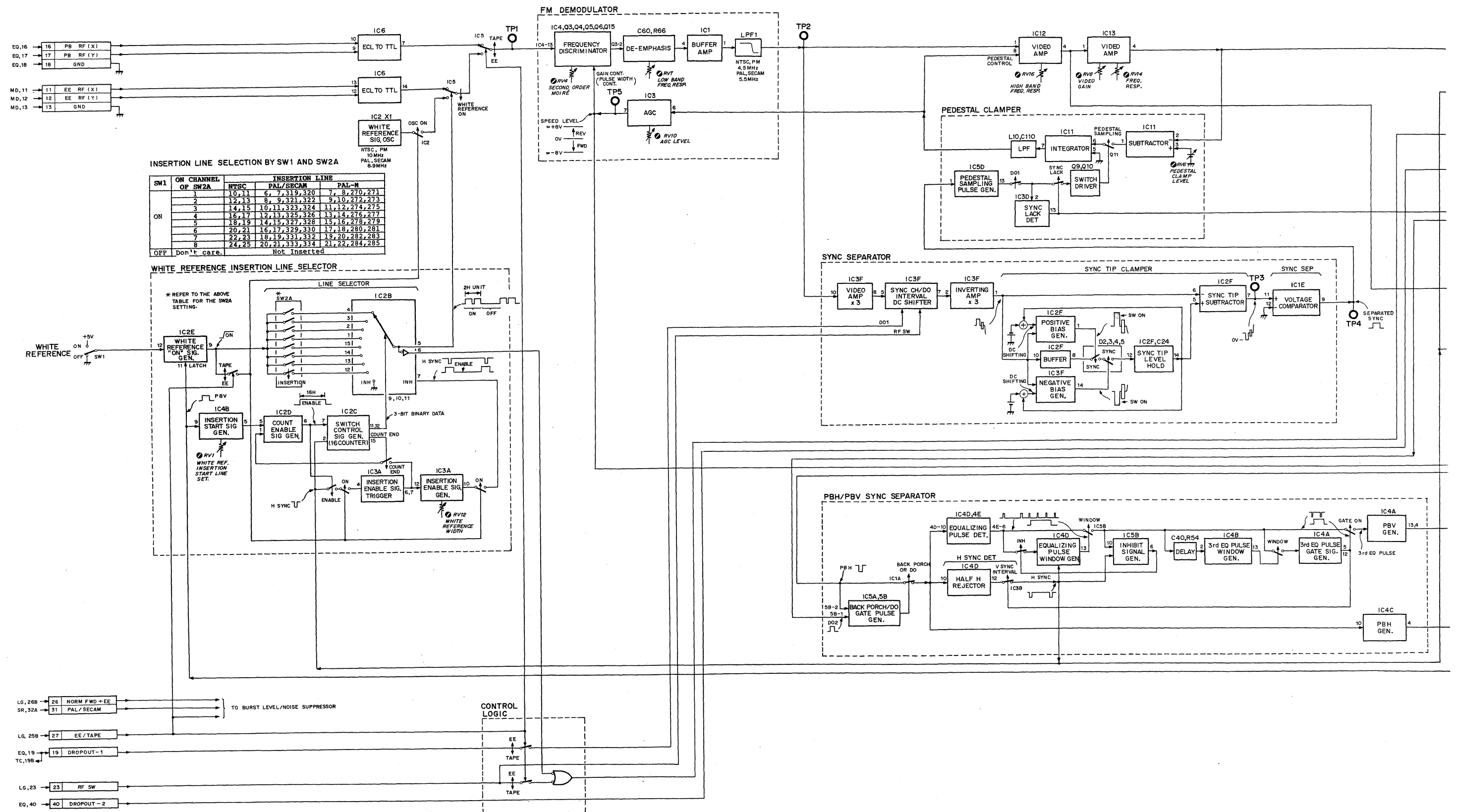
DEI

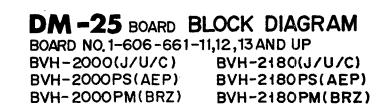


EQ-02 BOARD BLOCK DIAGRAM
 BOARD NO. 1-606-659-12,13,14 AND UP
 BVH-2000(J/U/C) BVH-2180(J/U/C) BVH-2500(J/U/C)
 BVH-2000PS(AEP) BVH-2180PS(AEP) BVH-2500P
 BVH-2000PM(BRZ) BVH-2180PM(BRZ)

DM-25 BOARD

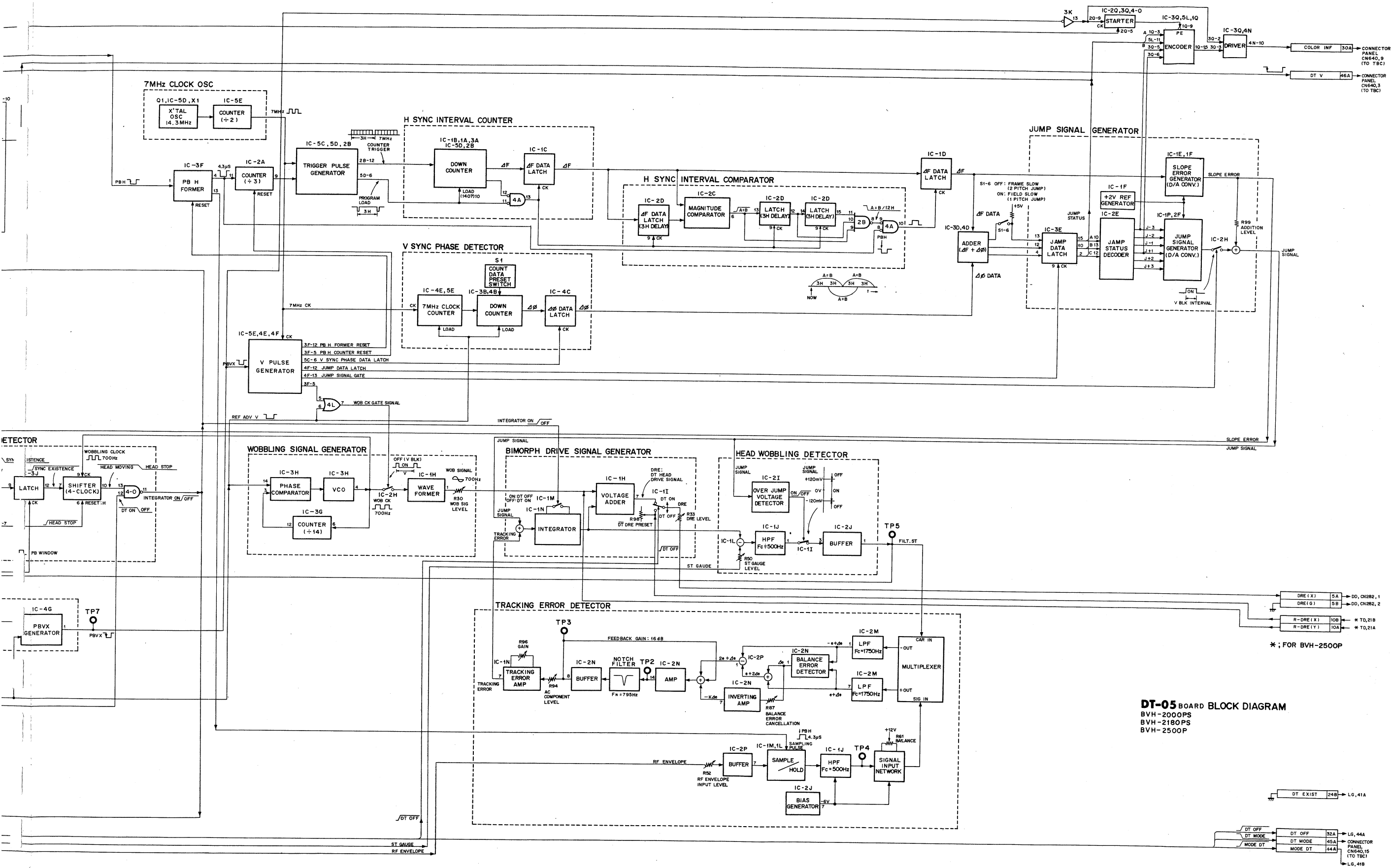
Video Demodulator



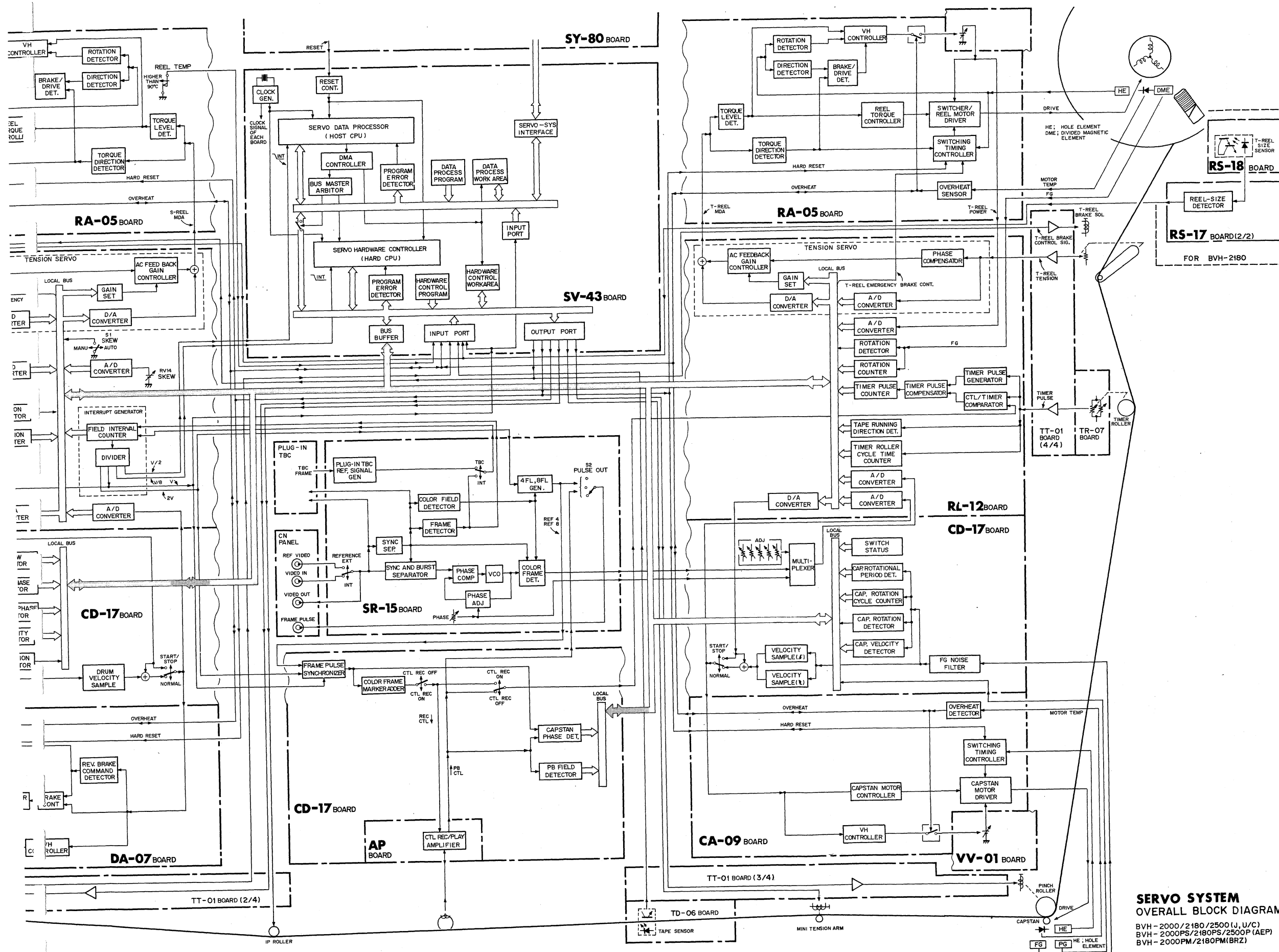


DT Control





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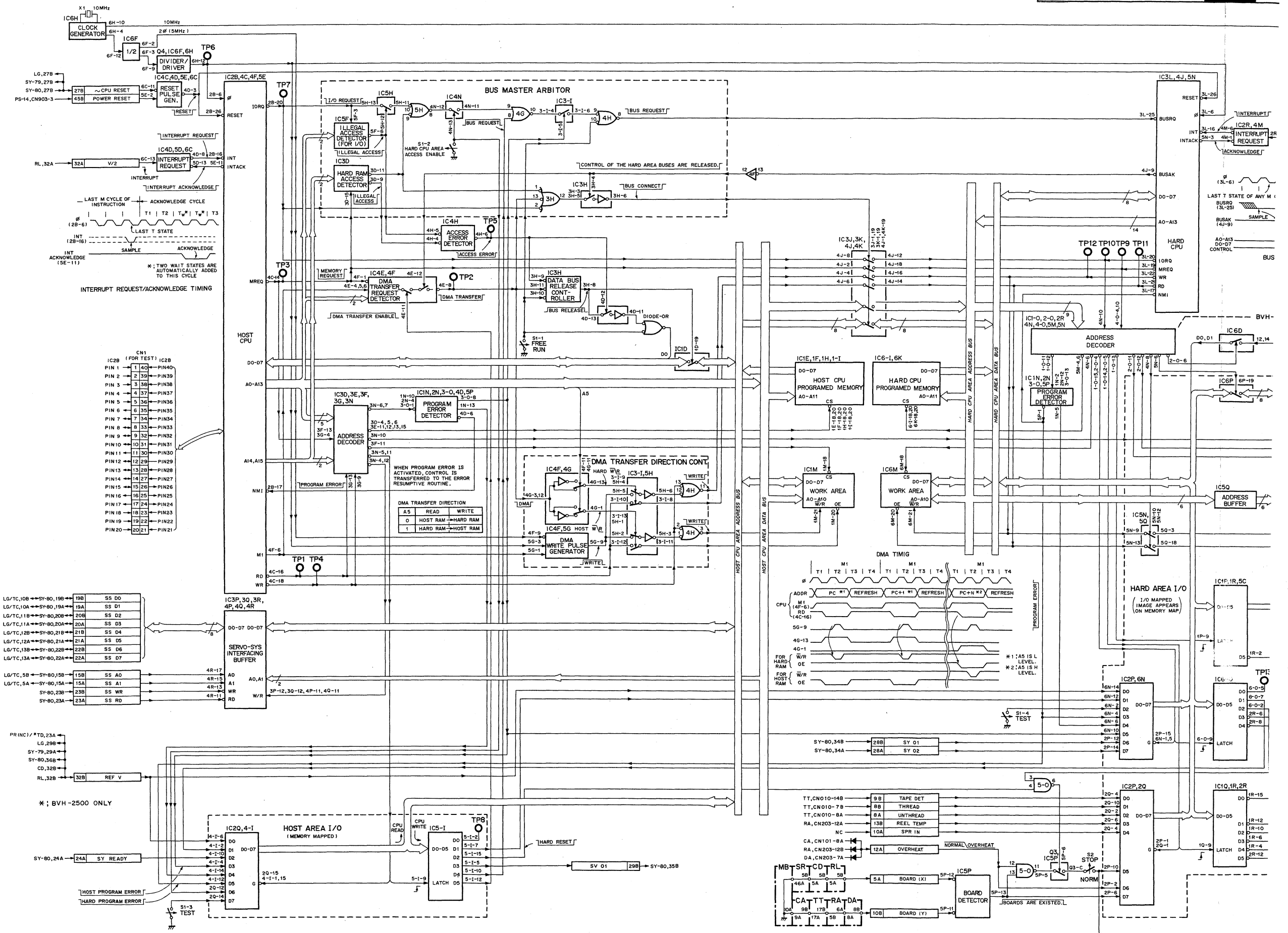


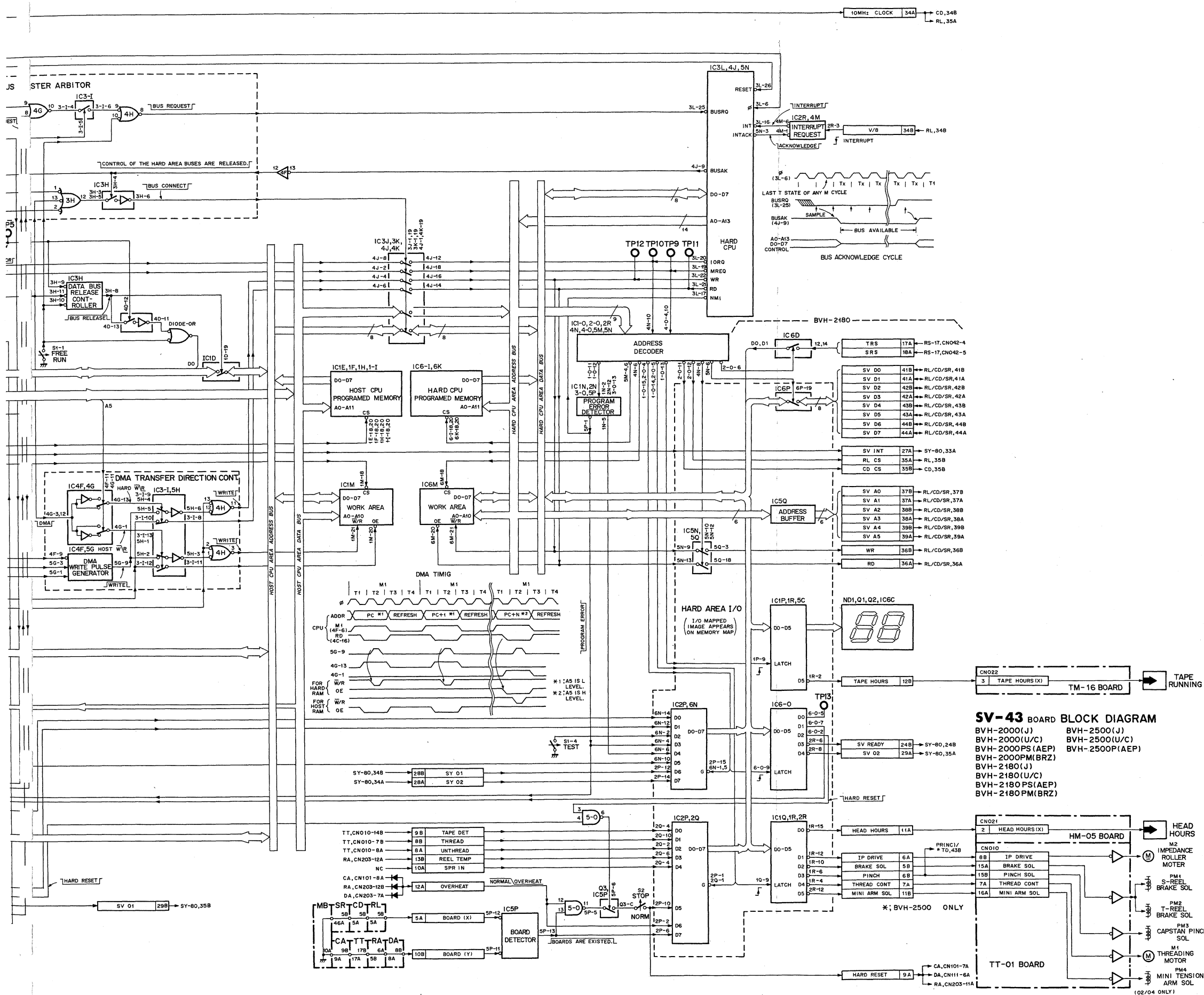
SERVO SYSTEM OVERALL BLOCK DIAGRAM

BVH - 2000/2180/2500 (J, U/C)
BVH - 2000PS/2180PS/2500P (AEP)
BVH - 2000PM/2180PM (BRZ)

SV-43 BOARD

Servo CPU



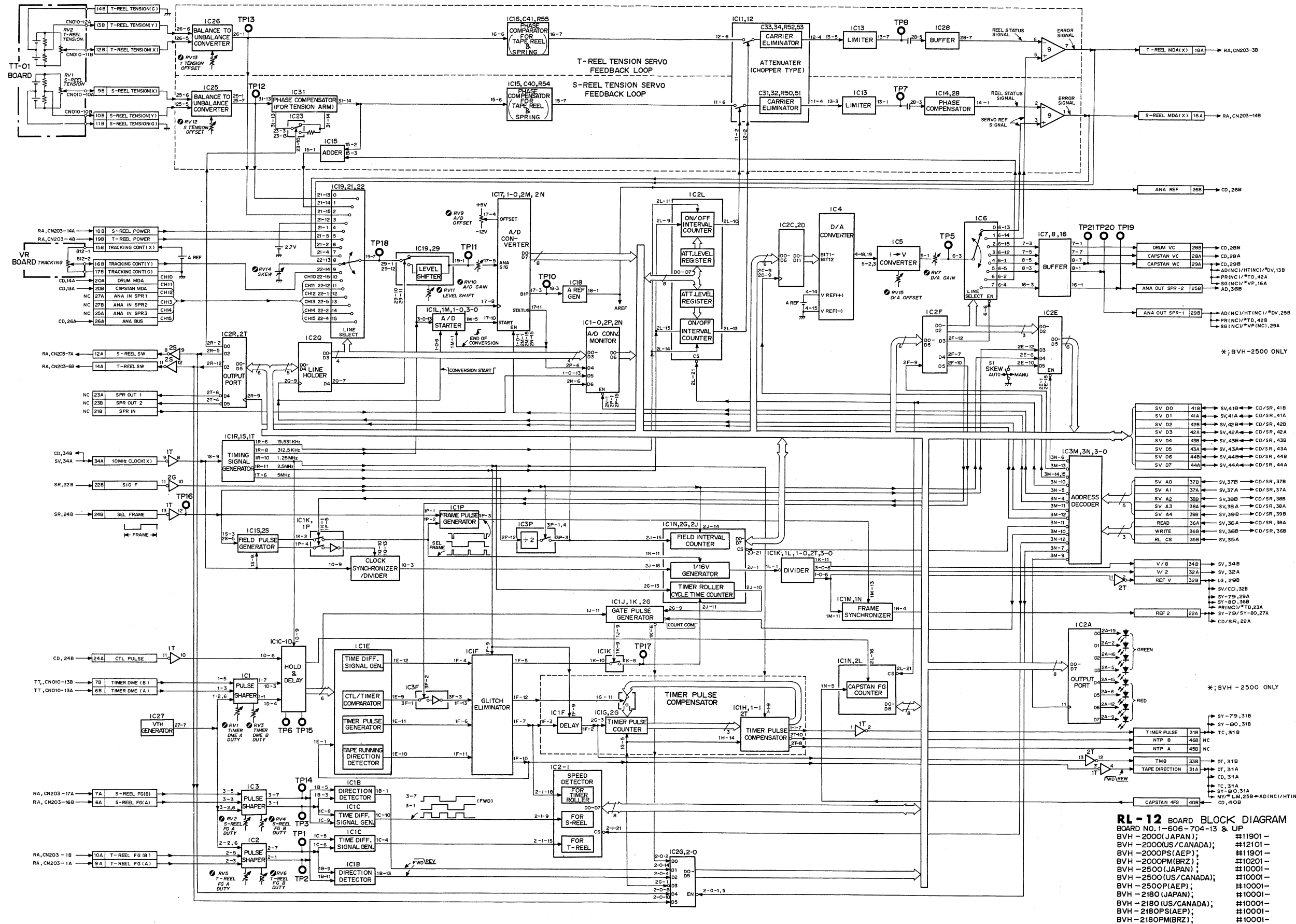


SV-43 BOARD BLOCK DIAGRAM

BVH-2000(J) BVH-2500(J)
 BVH-2000(U/C) BVH-2500(U/C)
 BVH-2000PS(AEP) BVH-2500P(AEP)
 BVH-2000PM(BRZ)
 BVH-2180(J)
 BVH-2180(U/C)
 BVH-2180PS(AEP)
 BVH-2180PM(BRZ)

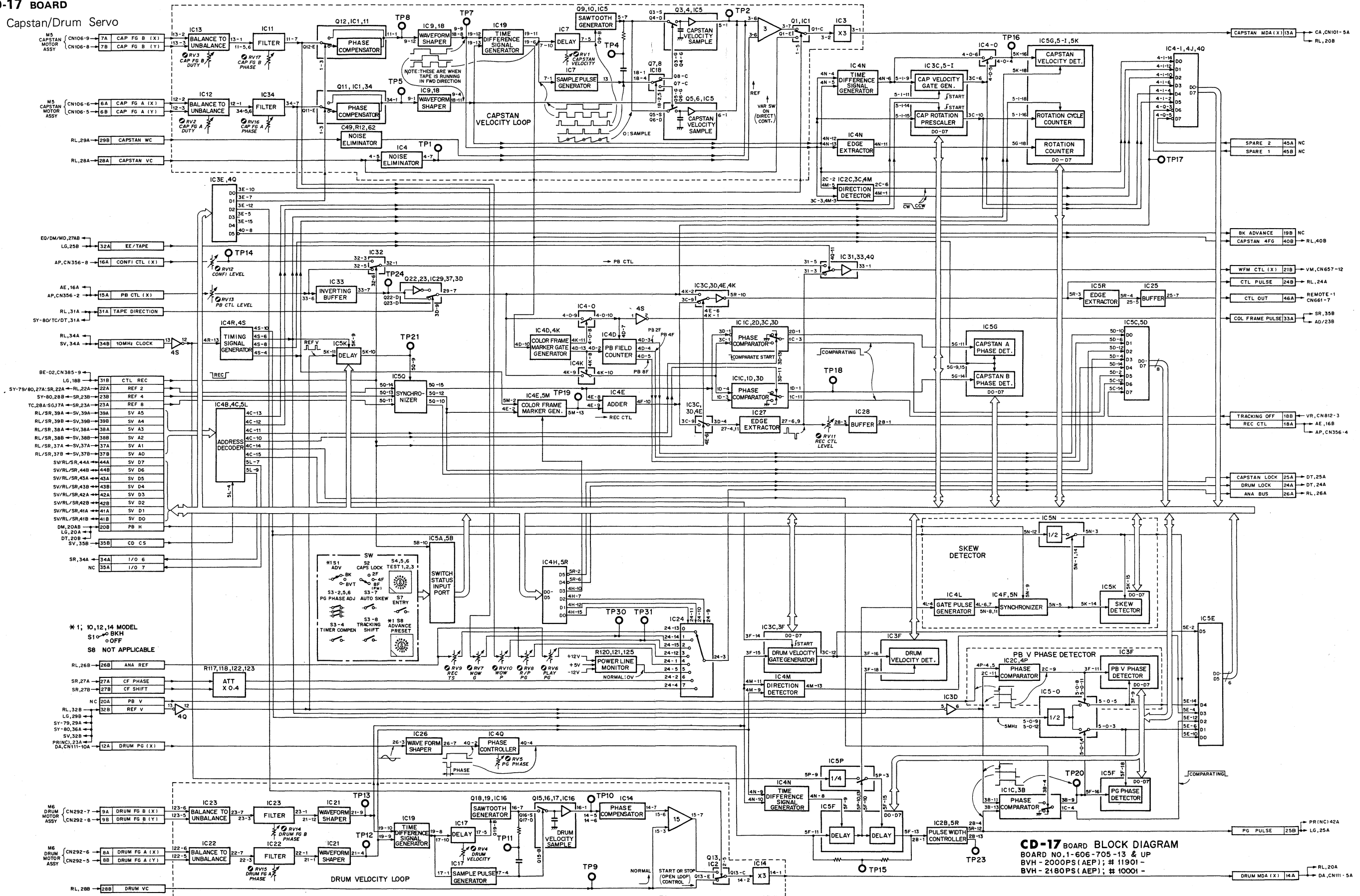
RL-12 BOARD

Reel Servo



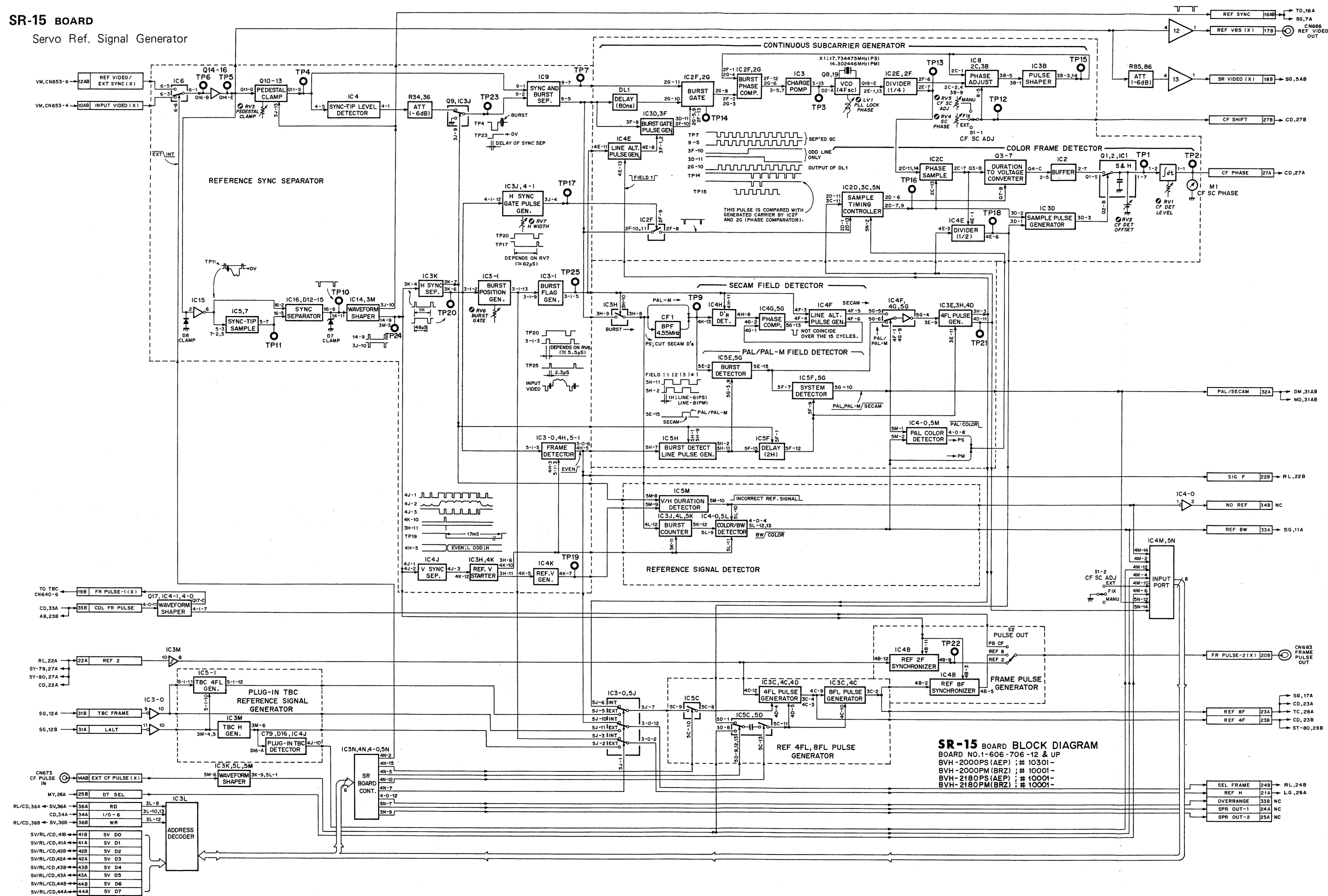
CD-17 BOARD

Capstan/Drum Servo



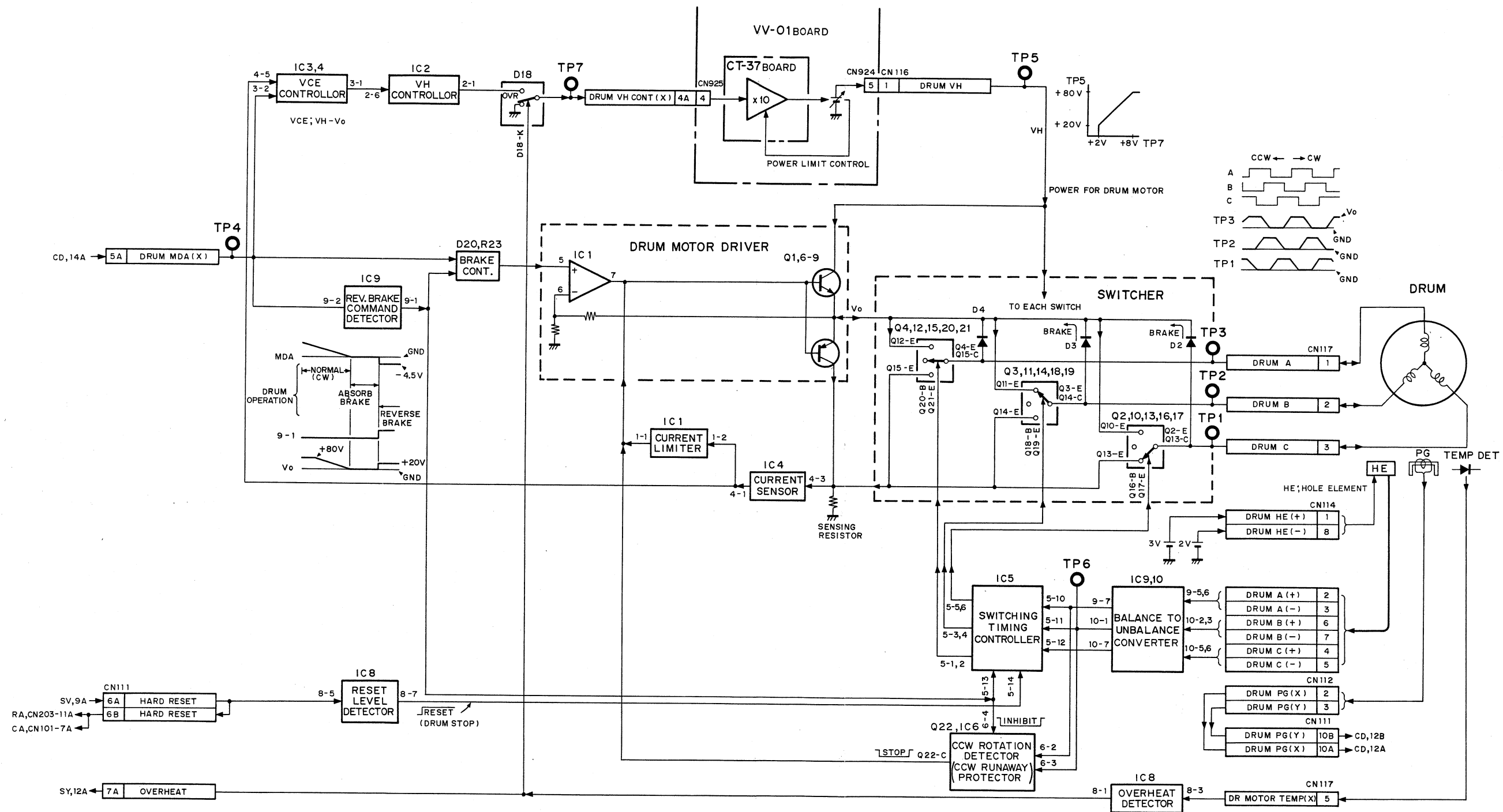
SR-15 BOARD

Servo Ref. Signal Generator



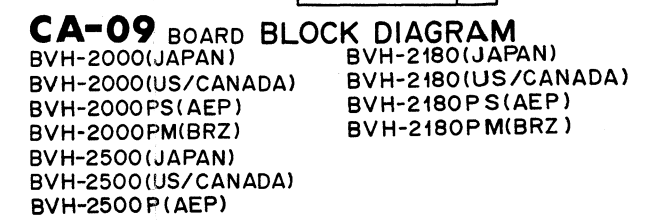
DA-07 BOARD

Drum Motor Driver



DA-07 BOARD BLOCK DIAGRAM
 BVH-2000(JAPAN) BVH-2180(JAPAN)
 BVH-2000(US/CANADA) BVH-2180(US/CANADA)
 BVH-2000PS(AEP) BVH-2180PS(AEP)
 BVH-2000PM(BRZ) BVH-2180PM(BRZ)
 BVH-2500(JAPAN)
 BVH-2500(US/CANADA)
 BVH-2500P(AEP)

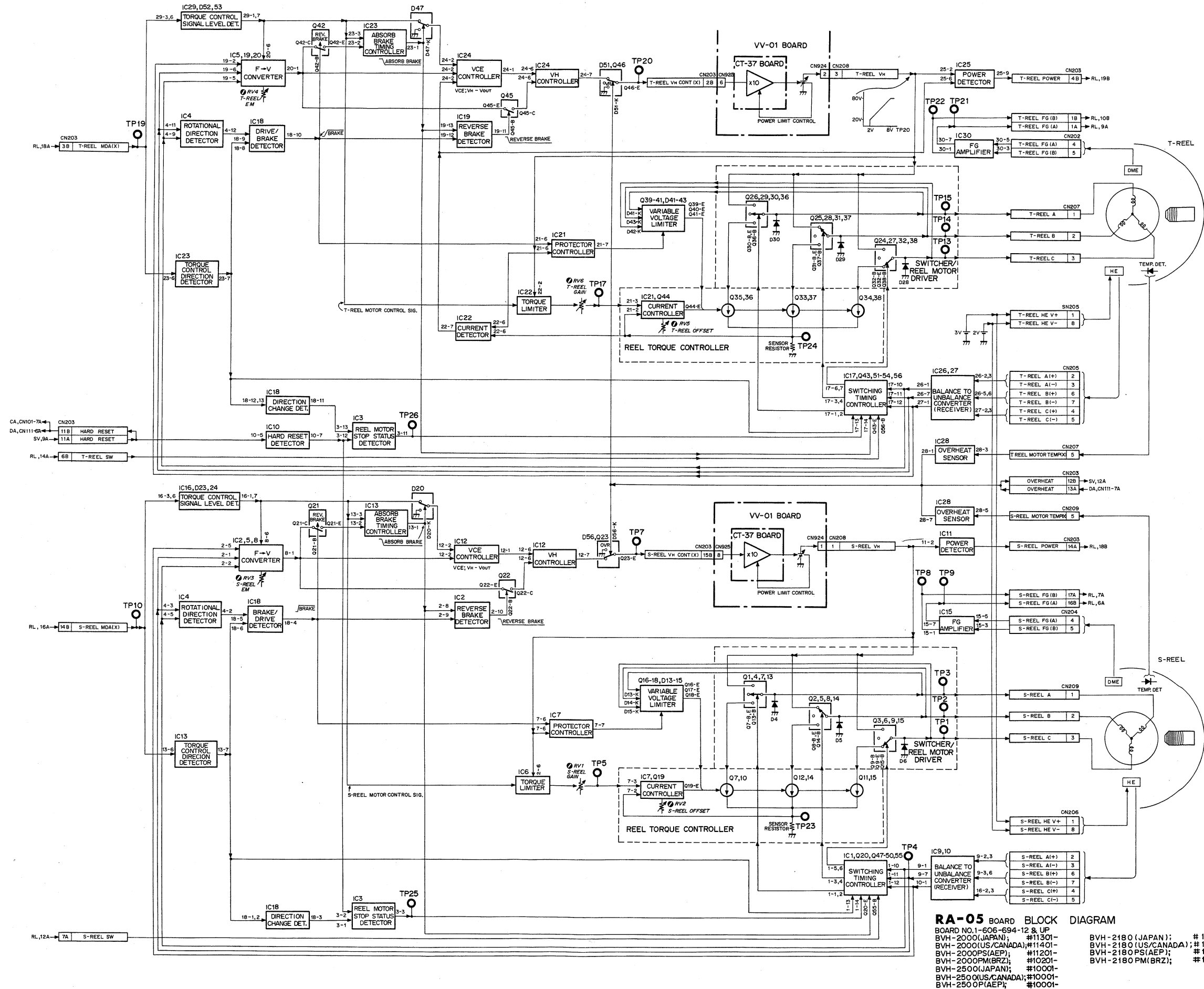
Capstan Motor Driver



RA-05 BOARD
Reel Motor Driver

BLOCK DIAGRAM RA-05

RA-05 BLOCK DIAGRAM

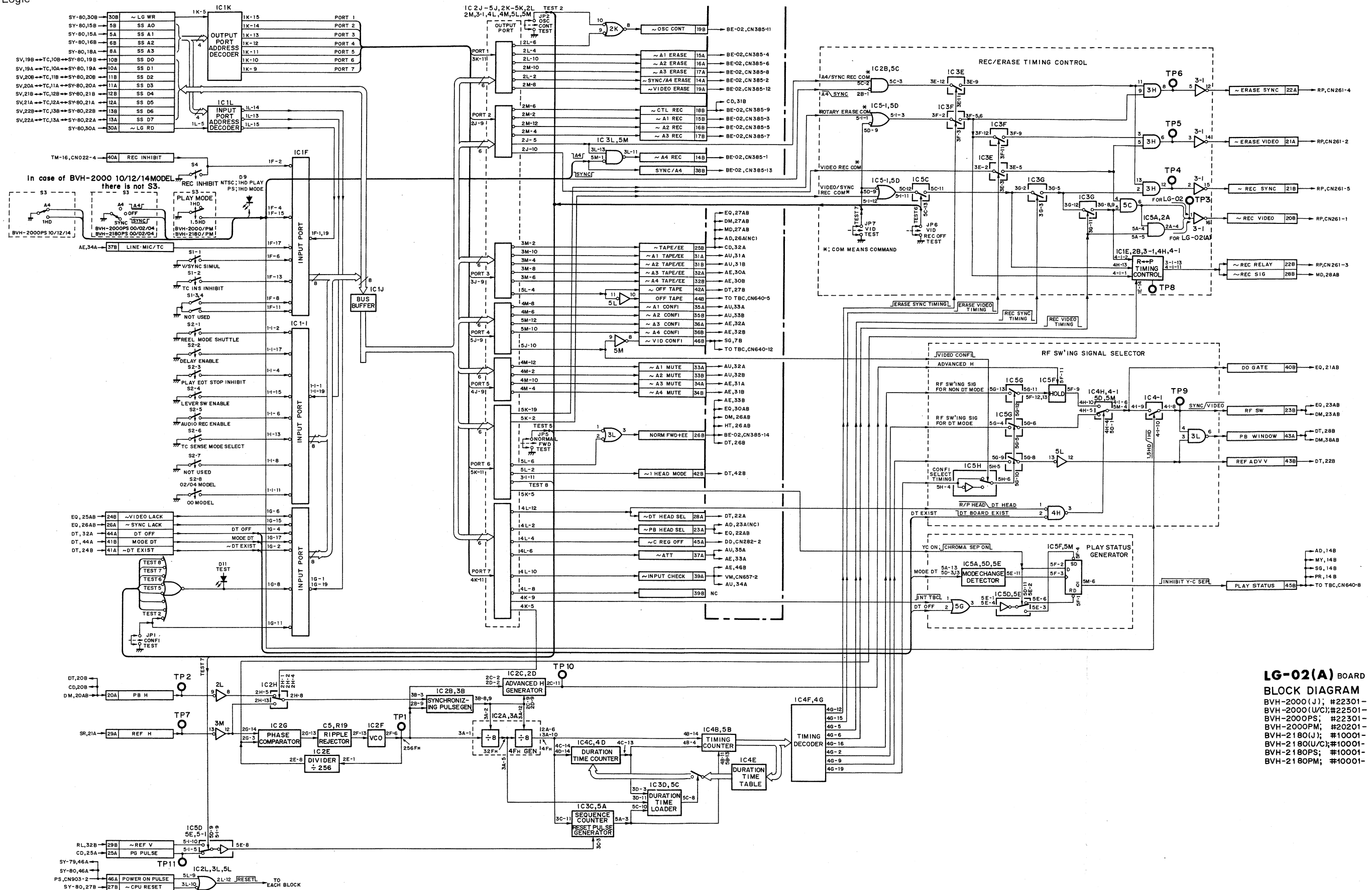


RA-05 BOARD BLOCK DIAGRAM

BOARD NO.1-606-694-12 & UP
BVH-2000(JAPAN); #11301-
BVH-2000(US/CANADA); #11401-
BVH-2000PS(AEP); #11201-
BVH-2000PM(BRZ); #11021-
BVH-2500(JAPAN); #10001-
BVH-2500(US/CANADA); #10001-
BVH-2500PS(AEP); #10001-
BVH-2180(JAPAN); #10001-
BVH-2180(US/CANADA); #10001-
BVH-2180PS(AEP); #10001-
BVH-2180PM(BRZ); #10001-

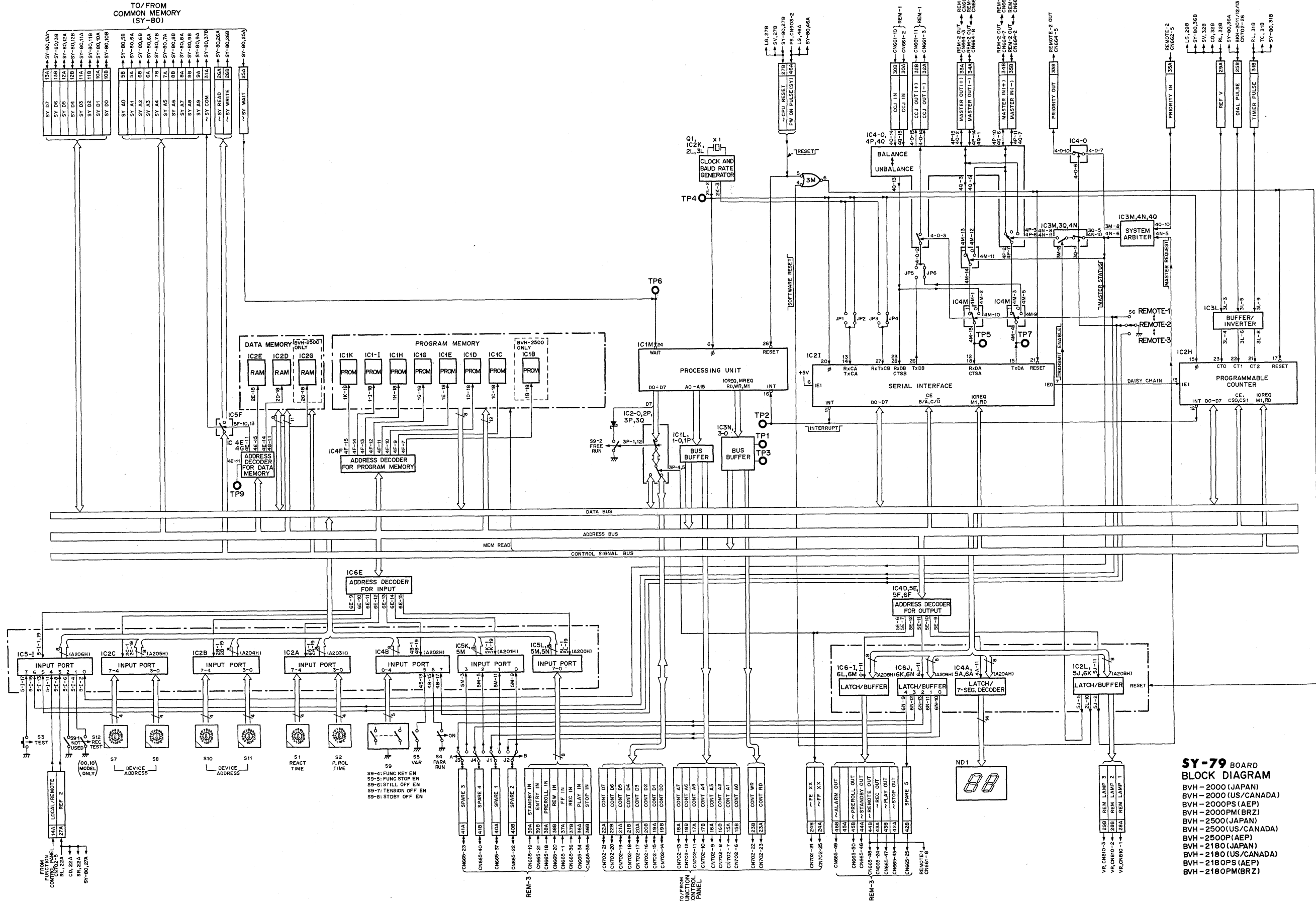
LG-02(A) BOARD

Logic

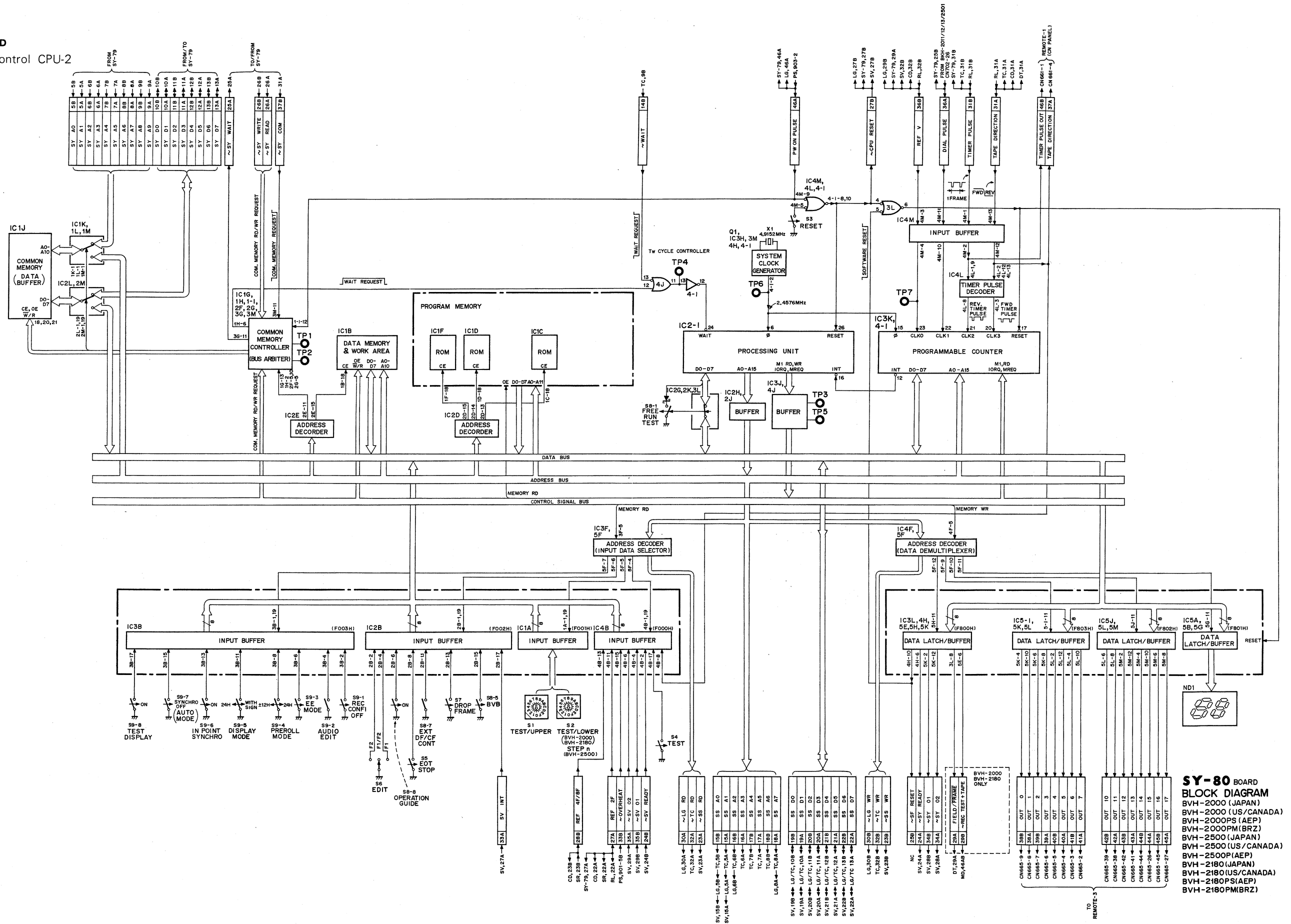


SY-79 BOARD

System Control CPU-1



System Control CPU-2



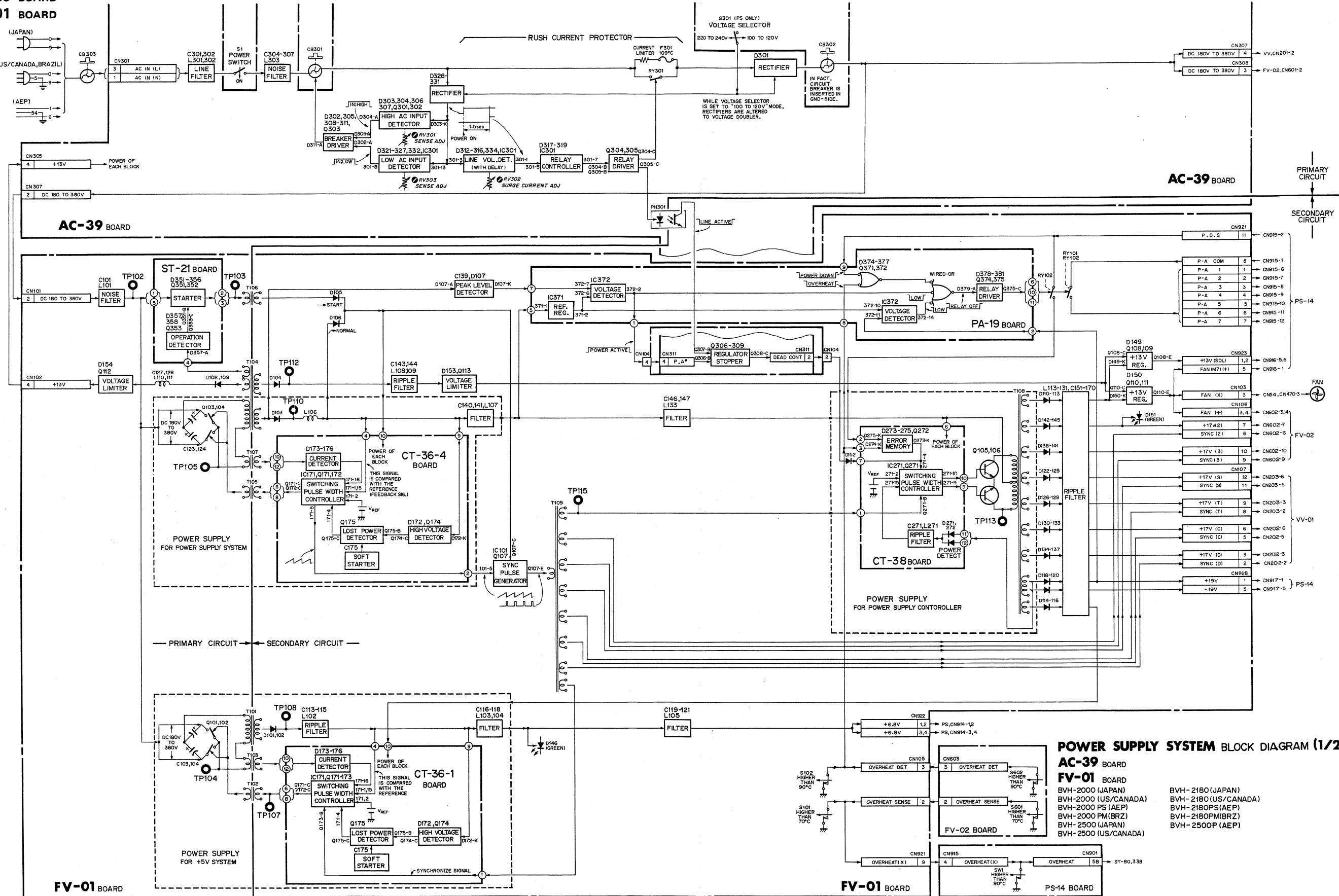
(JAPAN)

(US/CANADA, BRAZIL)

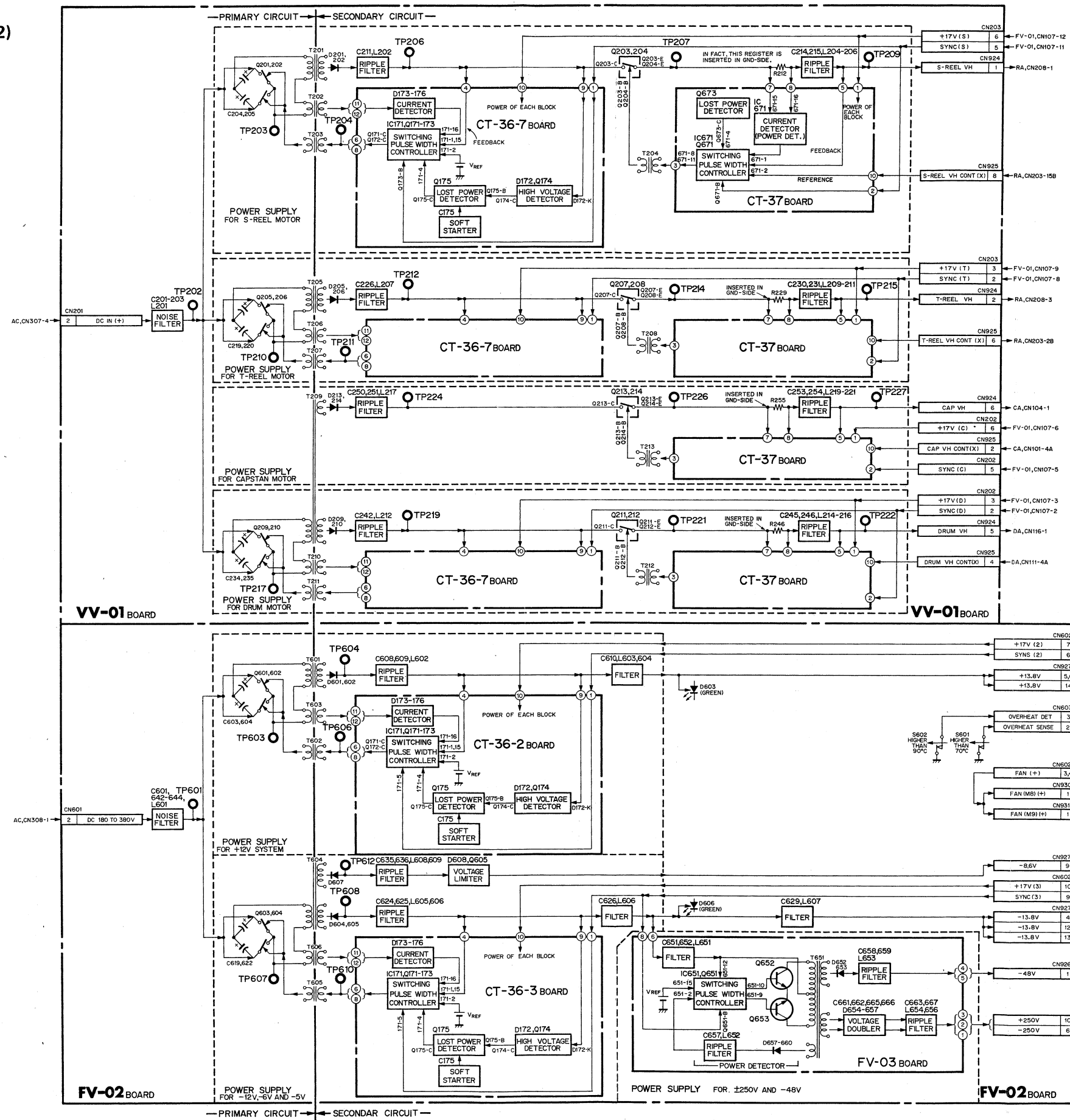
(AEP)

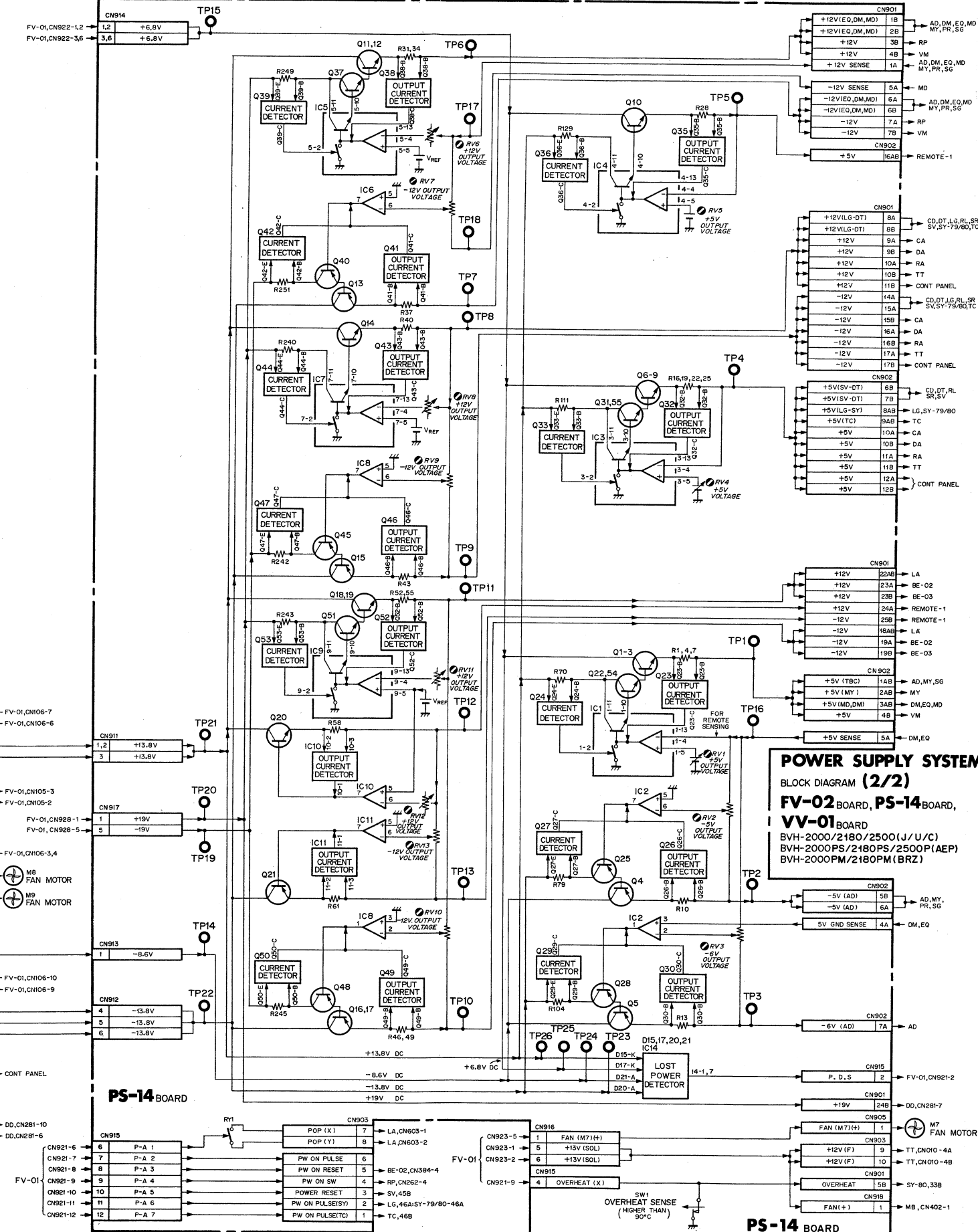
CB303

CH301	
3	A
1	A



PS-14 BOARD
VV-01 BOARD
FV-02 BOARD

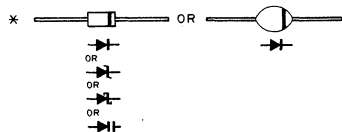




SECTION B

SEMICONDUCTOR PIN ASSIGNMENTS

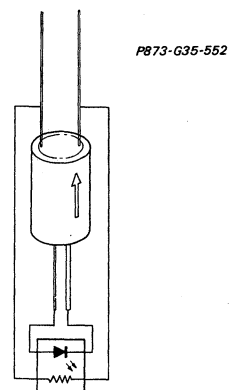
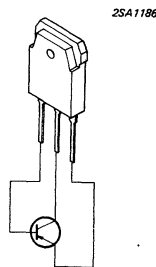
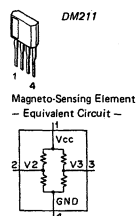
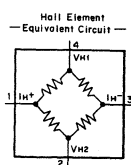
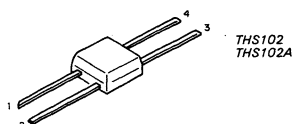
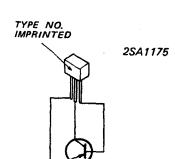
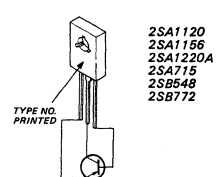
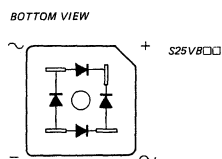
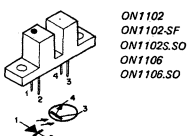
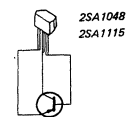
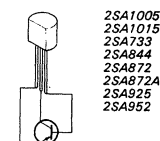
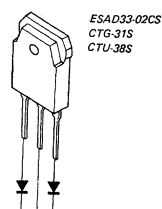
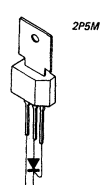
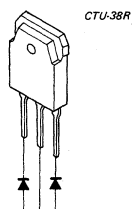
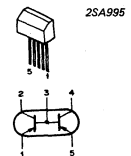
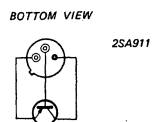
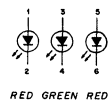
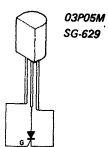
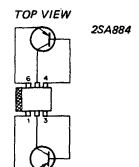
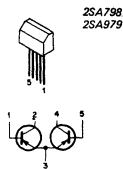
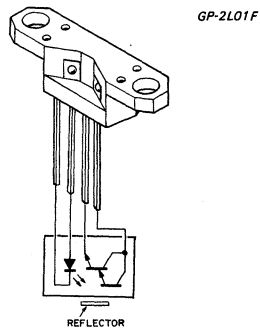
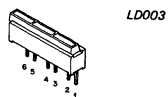
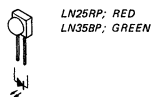
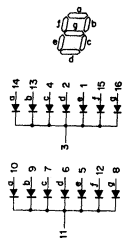
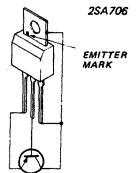
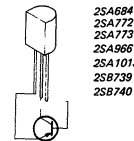
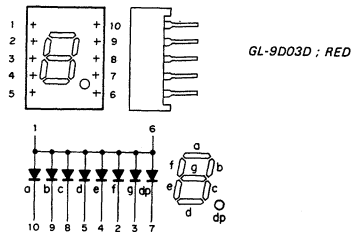
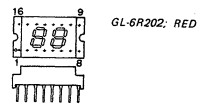
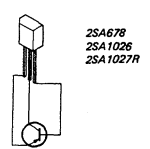
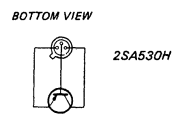
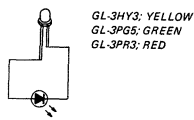
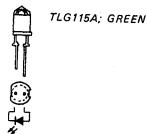
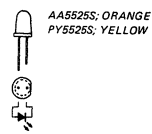
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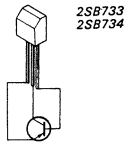
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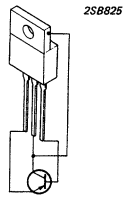
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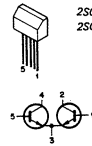
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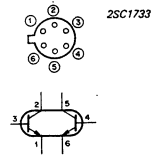


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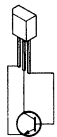


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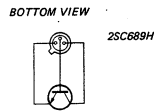
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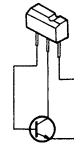
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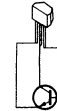
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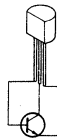
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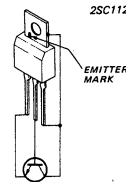
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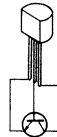


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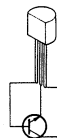
EMITTER
MARK



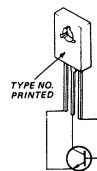
2SC2555
2SC2837
2SC2944



2SC2593
2SC2901

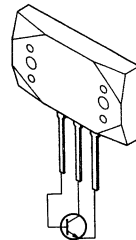


2SC1126
2SC2009
2SC2011



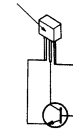
2SC1162
2SC2590A
2SC2752
2SD414
2SD809
2SD862
2SD882

TYPE NO.
PRINTED

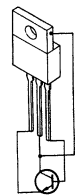


2SC2773

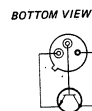
TYPE NO.
IMPRINTED



2SC2785

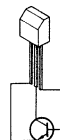


2SC1173
2SC1986
2SC2315
2SC2654
2SC3559
2SD313HP
2SD1061

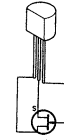


BOTTOM VIEW

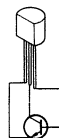
2N2369
2SC1252
2SC1762



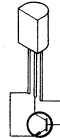
2SD773
2SD774



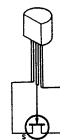
2SK43
2SK523



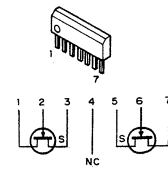
2SC1363
2SC1364
2SC1633
2SC1634
2SC1775
2SC1775A
2SC1815
2SC1890A
2SC2551
2SC2878
2SC3068
2SC641K
2SC945
JC501



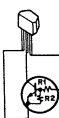
2SC1474
2SC1475
2SC2001
2SC2236
2SC2383
2SD788
2SD789



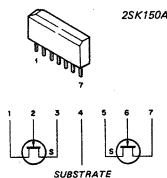
2SK107



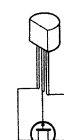
2SK109



DTC144ES (R1=47K, R2=47K)

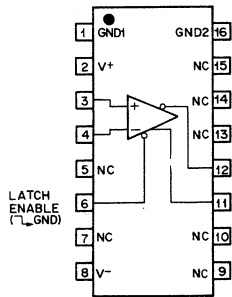


2SK150A

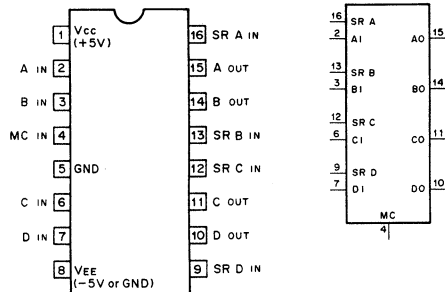


2SK162

AD9685BD (ANALOG DEVICES)
AM685DL (ADVANCED MICRO DEVICES)
VOLTAGE COMPARATOR
(OPEN EMITTER OUTPUTS)
— TOP VIEW —

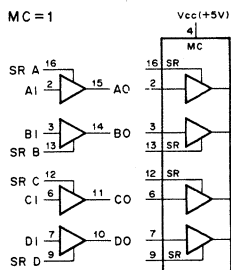


AM26LS30PC (ADVANCED MICRO DEVICE)
LINE DRIVER
— TOP VIEW —



MC: MODE CONTROL
SR: SLEW RATE CONTROL

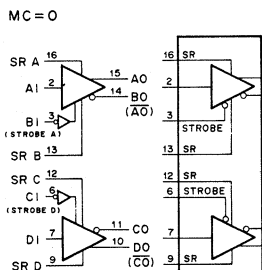
MC=1



INPUTS	OUTPUTS
MC	A TO D
1	0
1	1

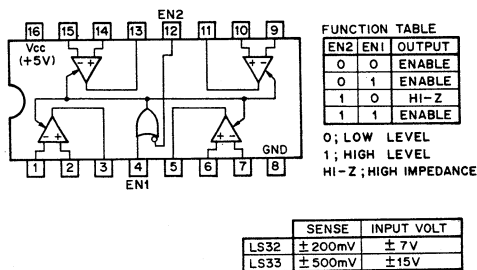
0: LOW LEVEL X: DONT CARE
1: HIGH LEVEL HI-Z: HIGH IMPEDANCE

MC=0



INPUTS	OUTPUTS
MC	A TO D
0	0
0	1
0	X

AM26LS32AC (TI)
AM26LS32PC (ADVANCED MICRO DEVICE)
HIGH SPEED DIFFERENTIAL LINE RECEIVER
— TOP VIEW —

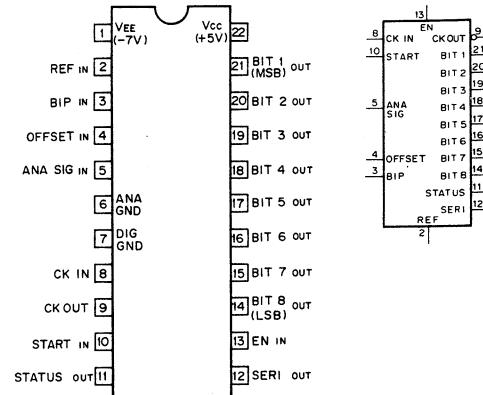


EN2	EN1	OUTPUT
0	0	ENABLE
0	1	ENABLE
1	0	HI-Z
1	1	ENABLE

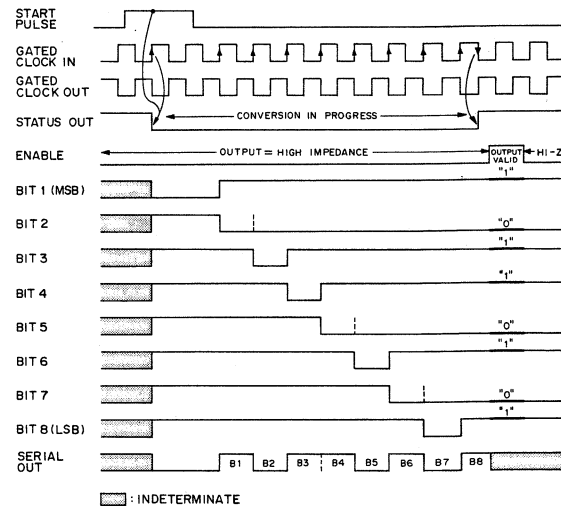
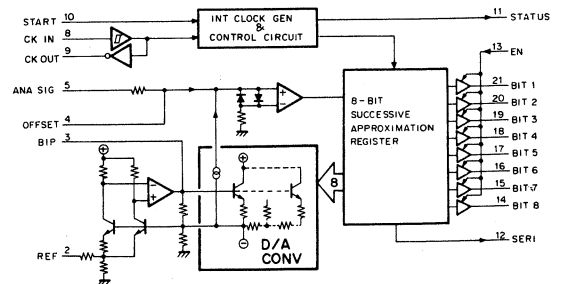
0: LOW LEVEL
1: HIGH LEVEL
HI-Z: HIGH IMPEDANCE

SENSE	INPUT VOLT
LS32	±200mV ±7V
LS33	±500mV ±15V

BA9101 (ROHM)
8-BIT A/D CONVERTER WITH 3-STATE OUTPUT CONTROL
— TOP VIEW —

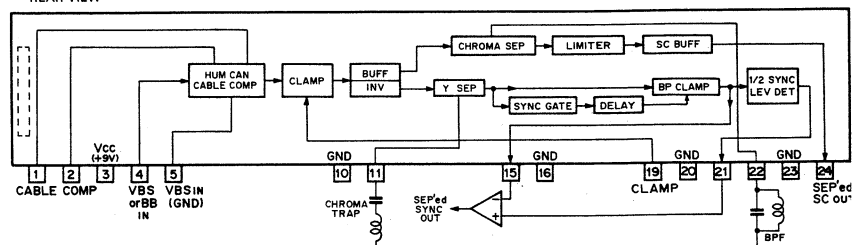


REF: REFERENCE VOLTAGE ADJUST
BIP: BIPOlar OFFSET IN
CK IN: EXTERNAL CLOCK or CK IN
CK OUT: INVERTED CLOCK OUT
START: CONVERSION START PULSE IN
STATUS: STATUS FLAG OUT
SERI: SERIAL OUT
EN: OUTPUT ENABLE

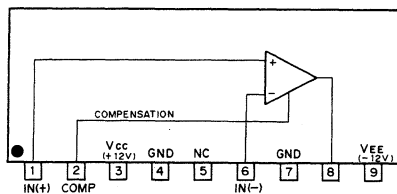


TIMING DIAGRAM (Binary Code 10110101)

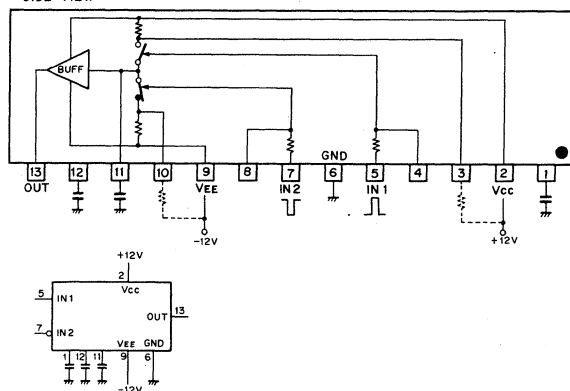
BX1040 (SONY)
SYNC SEPARATOR
— REAR VIEW —



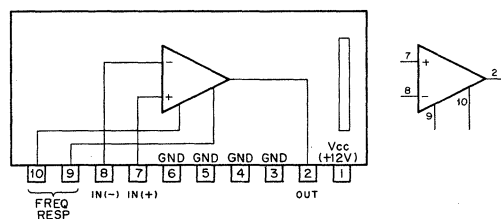
BX365A (SONY)
A7015
VIDEO AMPLIFIER
— SIDE VIEW —



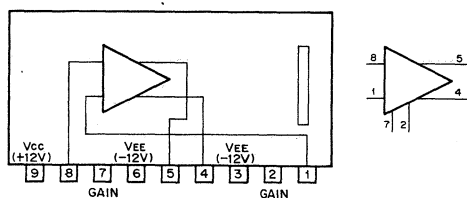
BX381 (SONY)
PHASE COMPARATOR
— SIDE VIEW —



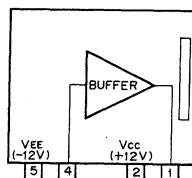
BX1156 (SONY)
BX3929 (SONY)
HYBRID VIDEO RF PREAMPLIFIER
— IMPRINTED SIDE —



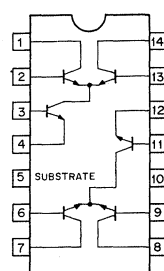
BX3930 (SONY)
HYBRID VIDEO WIDEBAND DIFFERENTIAL AMPLIFIER
— IMPRINTED SIDE —



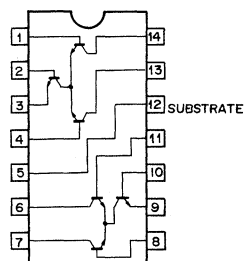
BX3931 (SONY)
BX3931A (SONY)
HYBRID VIDEO WIDEBAND
BUFFER AMPLIFIER
— IMPRINTED SIDE —



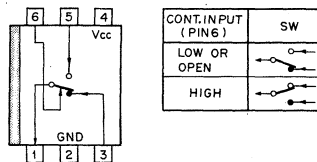
CA3054 (RCA)
DIFFERENTIAL AMPLIFIER
— TOP VIEW —



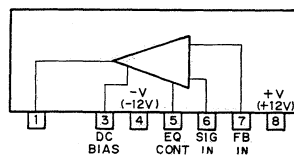
CA3102E (RCA)
HIGH FREQ DIFFERENTIAL AMPLIFIER
— TOP VIEW —



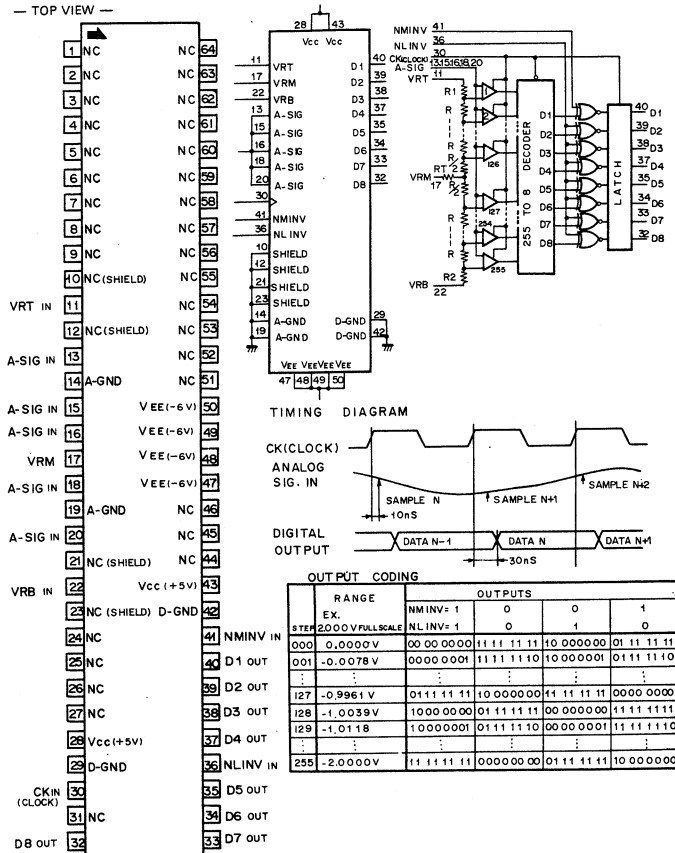
CX130 (SONY)
CX20060 (SONY)
ANALOG SWITCH
— TOP VIEW —



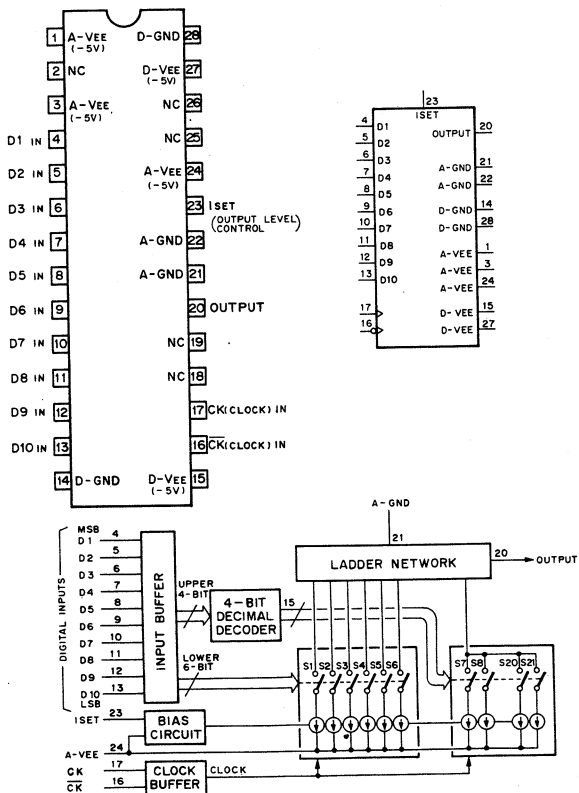
CX550 (SONY)
HA12017 (HITACHI)
AUDIO PREAMPLIFIER
— SIDE VIEW —



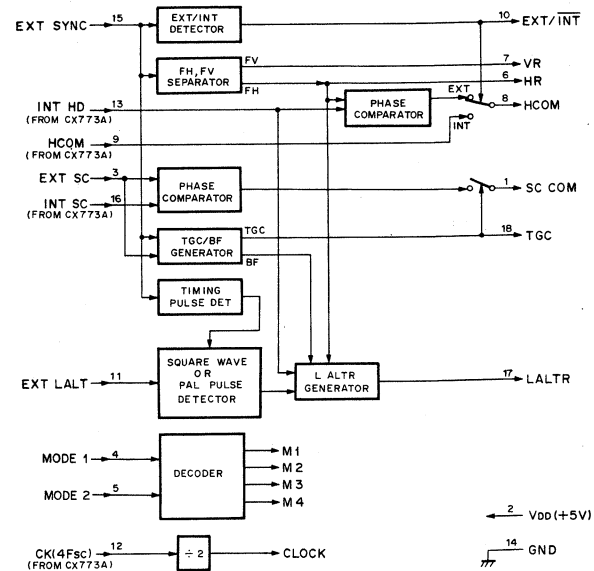
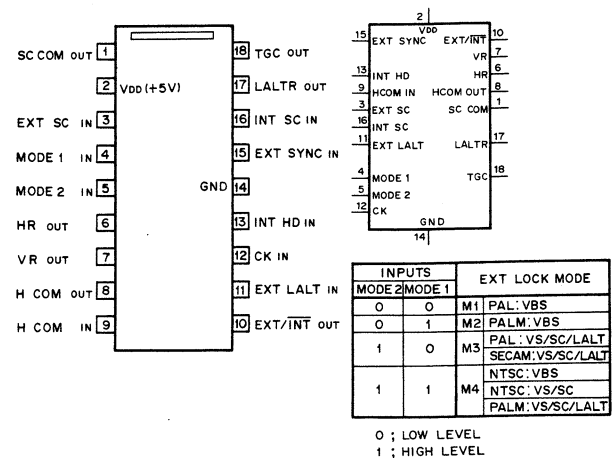
CX20016 (SONY)
CX20016A (SONY)
CX20016A-2 (SONY)
TDC1007J (TRW)
BIPOLAR/TTL 8-BIT VIDEO A/D CONVERTER
— TOP VIEW —



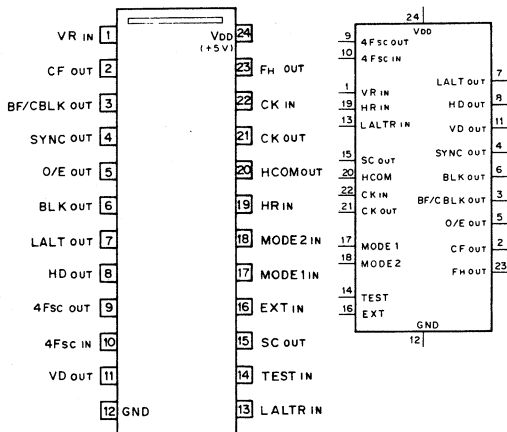
CX20051 (SONY)
CX20051A (SONY)
10-BIT D/A CONVERTER (ECL INPUT)
— TOP VIEW —



CX7903 (SONY)
C-MOS GENLOCK DRIVER FOR CX773A
— TOP VIEW —



CX773A (SONY)
 CX773A-1 (SONY)
 CX773B (SONY)
 C-MOS SYNC GENERATOR (NTSC, PAL-M, PAL, SECAM)
 — TOP VIEW —



O/E : ODD/EVEN FIELD
 CF : COLOR FRAME PULSE
 HCOM : H COMPARATOR

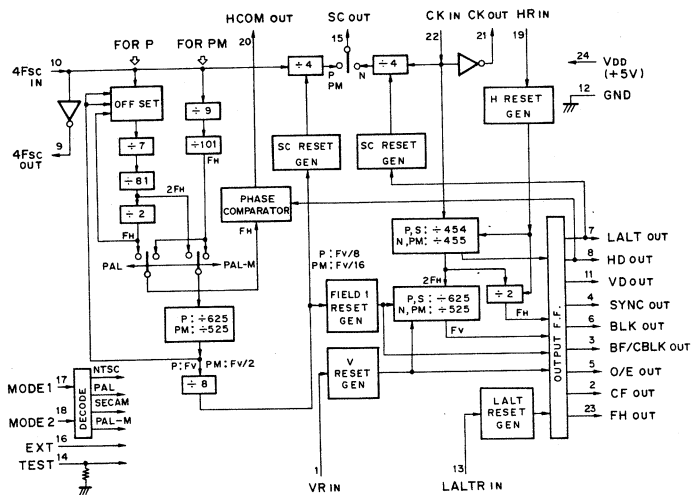
SYSTEM	4FSC	CLOCK
NTSC	910 FH	910 FH
PAL	1135 FH+2FV	908 FH
PALM	909 FH	910 FH
SECAM		908 FH

INPUTS	SYSTEM
MODE1	MODE2
0	0
0	1
1	0
1	1

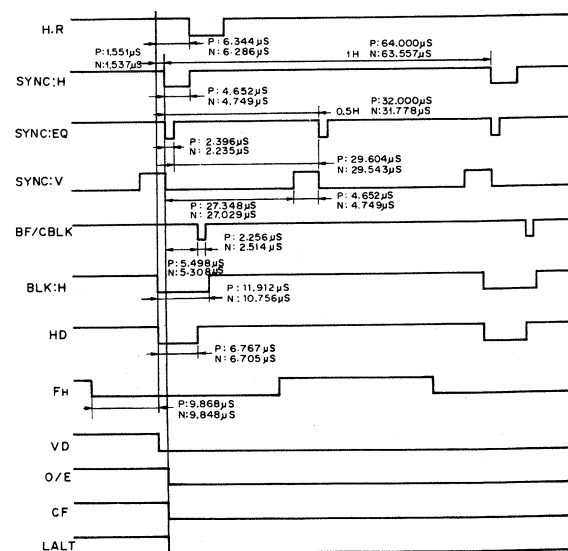
0 : LOW LEVEL (GND)
 1 : HIGH LEVEL (VDD)

INPUTS	FUNCTION
EXT	TEST
0	0
0	1
1	0
1	1

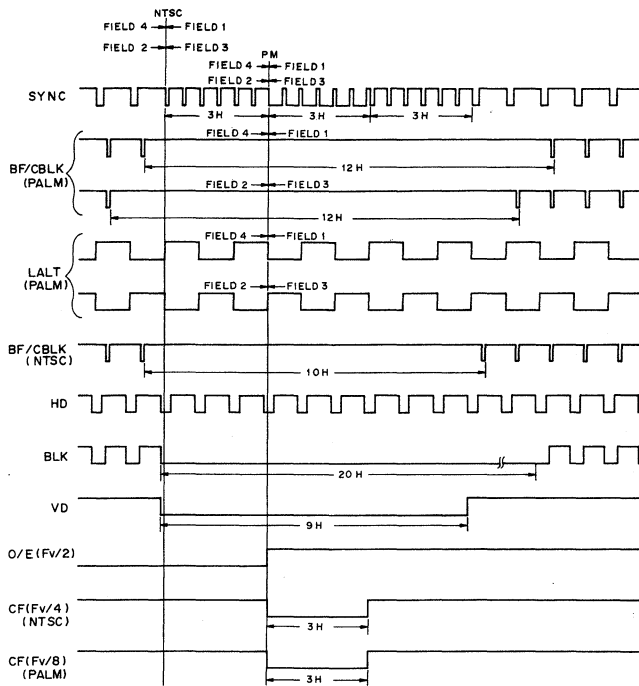
TEST "0" : OPEN
 (INTERNALLY
 PULLED DOWN)



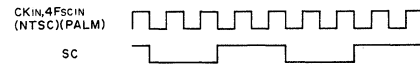
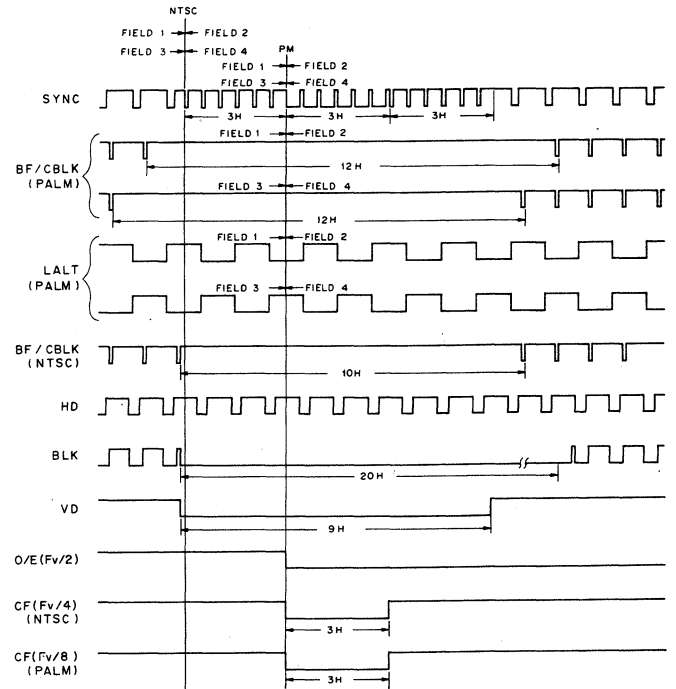
P: PAL, SECAM
 N: NTSC, PALM



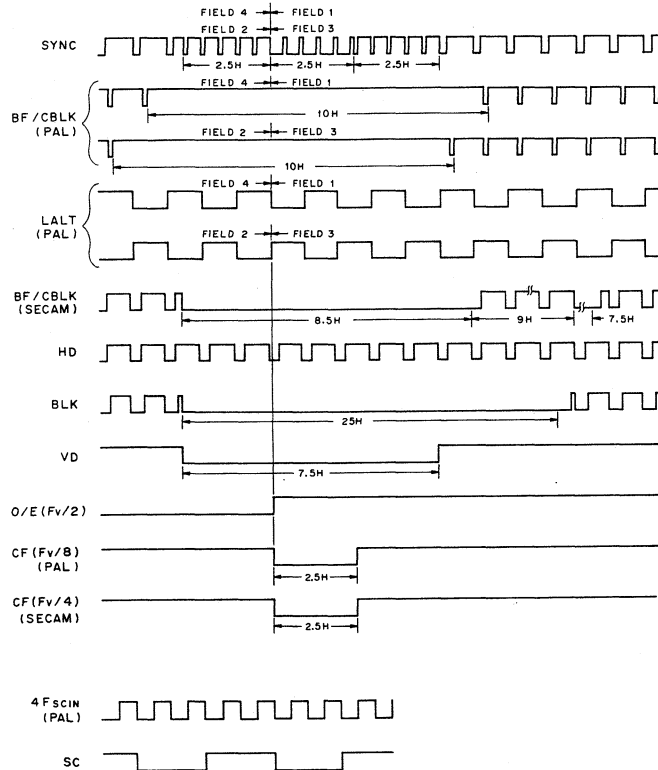
NTSC, PAL-M (FIELD 1,3)



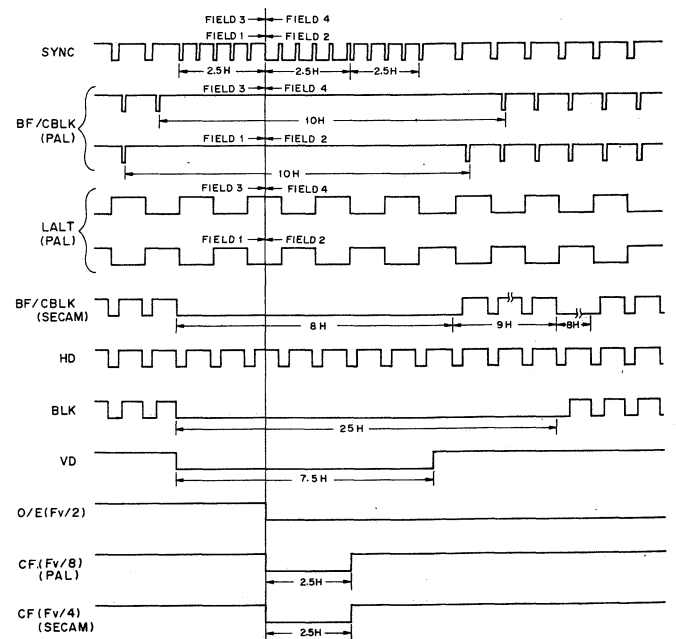
NTSC, PAL-M (FIELD 2,4)



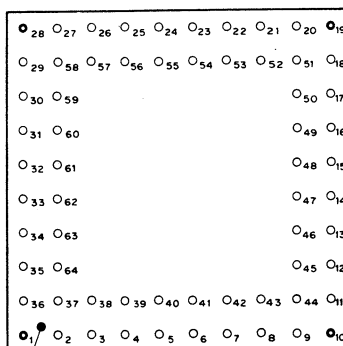
PAL, SECAM (FIELD 1,3)



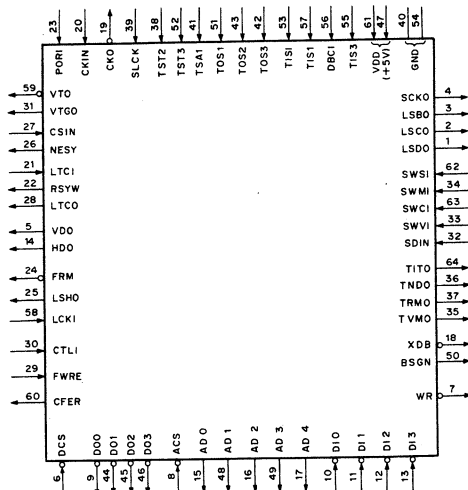
PAL, SECAM (FIELD 4,2)



CX7907 (SONY)
CX7907A (SONY)
C-MOS TIME CODE GENERATOR
— TOP VIEW —

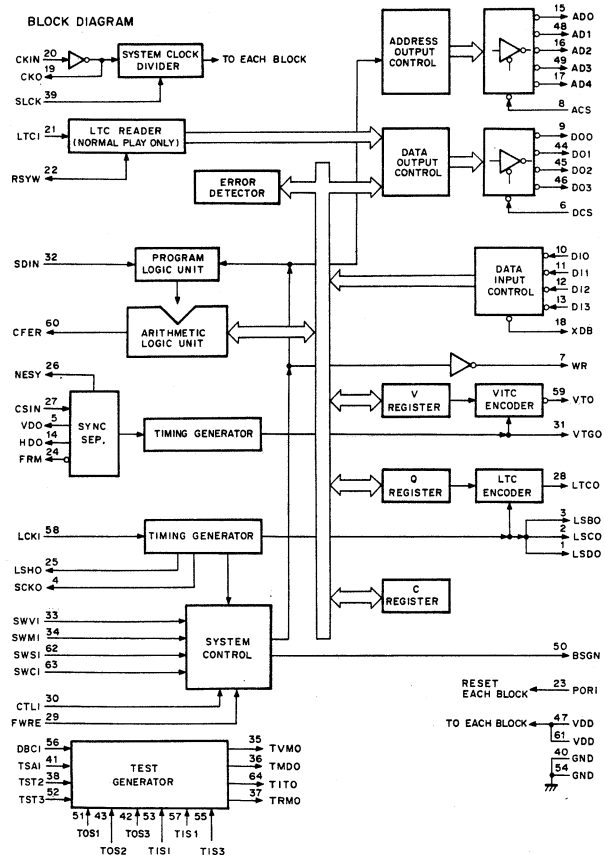


INDEX DOT



PIN ASSIGNMENT

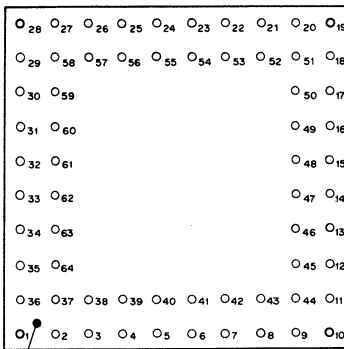
Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL	Pin No.	IN	OUT	SYMBOL
1		o	LSDO	17		o	AD4	33	o		SWVI	49		o	AD3
2		o	LSCO	18		o	XDB	34	o		SWMI	50		o	BSGN
3		o	LSBO	19		o	CKO	35		o	TVMO	51		o	TOS1
4		o	SCRO	20	o		CKIN	36		o	TNDO	52		o	TST3
5		o	VDO	21	o		LTCI	37		o	TRMO	53		o	TISI
6	o		DCS	22		o	RSYW	38	o		TST2	54		o	GND
7		o	WR	23	o		PORI	39	o		SLCK	55		o	TIS3
8	o		ACS	24		o	FRM	40		o	GND	56		o	DBCI
9		o	DO0	25		o	LSHO	41	o		TSAI	57		o	TISI
10	o		DI0	26		o	NESY	42	o		TOS3	58		o	LCKI
11		o	DI1	27	o		CSIN	43	o		TOS2	59		o	VTO
12	o		DI2	28		o	LTCO	44		o	DO1	60		o	CFER
13	o		DI3	29	o		FWRE	45		o	DO2	61	o		VDD(+5V)
14		o	HDO	30		o	CTLI	46		o	DO3	62		o	SWSI
15		o	AD0	31	o		VTGO	47	o		VDD(+5V)	63	o		SWCI
16		o	AD2	32	o		SDIN	48		o	AD1	64		o	TITO



FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE CHIP SELECT INPUT
15	AD0	ADDRESS LINE CHIP SELECT INPUT
48	AD1	ADDRESS LINE CHIP SELECT INPUT
16	AD2	ADDRESS LINE CHIP SELECT INPUT
49	AD3	ADDRESS LINE CHIP SELECT INPUT
17	AD4	ADDRESS LINE CHIP SELECT INPUT
50	BSGN	BUSY GENERATOR OUTPUT
60	CFER	COLOR FRAME ERROR FLAG OUTPUT
19	CKIN	SYSTEM CLOCK INPUT
20	CKO	CLOCK OUTPUT
27	CSIN	COMPOSITE SYNC INPUT
30	CTLI	CTL(TIMER) SIGNAL INPUT (L)
6	DCS	DATA LINE CHIP SELECT INPUT (NEGATIVE-LOGIC)
10	DI0	DATA BUS INPUT (NEGATIVE-LOGIC)
11	DI1	DATA BUS INPUT (NEGATIVE-LOGIC)
12	DI2	DATA BUS INPUT (NEGATIVE-LOGIC)
13	DI3	DATA BUS INPUT (NEGATIVE-LOGIC)
9	DO0	DATA BUS OUTPUT (NEGATIVE-LOGIC)
44	DO1	DATA BUS OUTPUT (NEGATIVE-LOGIC)
45	DO2	DATA BUS OUTPUT (NEGATIVE-LOGIC)
46	DO3	DATA BUS OUTPUT (NEGATIVE-LOGIC)
24	FRM	FRAME SIGNAL OUTPUT (NEGATIVE-LOGIC)
29	FWRE	CTL DIRECTION INPUT
14	HDO	HORIZONTAL SYNC DRIVE OUTPUT
58	LCKI	LTC CLOCK INPUT (SMPT 9.6kHz/EBU 8kHz)
3	LSBO	LTC SYNCHRONOUS SIGNAL B OUTPUT
2	LSCO	LTC SYNCHRONOUS SIGNAL C OUTPUT
1	LSDO	LTC SYNCHRONOUS SIGNAL D OUTPUT
25	LSHO	LTC SYNCHRONOUS SIGNAL H OUTPUT
21	LTCI	LTC INPUT
28	LTCO	LTC SIGNAL OUTPUT
26	NESY	LOST-SYNC FLAG OUTPUT
23	PORI	POWER ON RESET INPUT
22	RSYW	READ SYNC WORD OUTPUT
4	SCRO	SWITCHES SIGNAL IN CLOCK OUTPUT
32	SDIN	SERIAL DATA INPUT
39	SLCK	SELECT CLOCK INPUT
63	SWCI	SWITCHES SIGNAL C INPUT
34	SWMI	SWITCHES SIGNAL M INPUT
62	SWSI	SWITCHES SIGNAL S INPUT
33	SWVI	SWITCHES SIGNAL V INPUT
5	VDO	VERTICAL SYNC DRIVE OUTPUT
31	VTGO	VITC GATE SIGNAL OUTPUT
59	VTO	VITC SIGNAL OUTPUT (NEGATIVE-LOGIC)
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
18	XDB	EXTERNAL DATA BUS IN FLAG OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
61	VDD	POWER LINE (+5V)
40	GND	GND LINE
54	GND	GND LINE
55	TIS3	TEST INPUT (TO BE CONNECTED WITH GND)
53	TISI	TEST INPUT (TO BE CONNECTED WITH GND)
51	TOS1	TEST INPUT (TO BE CONNECTED WITH GND)
43	TOS2	TEST INPUT (TO BE CONNECTED WITH GND)
42	TOS3	TEST INPUT (TO BE CONNECTED WITH GND)
41	TSAI	TEST INPUT (TO BE CONNECTED WITH GND)
38	TST2	TEST INPUT (TO BE CONNECTED WITH GND)
52	TST3	TEST INPUT (TO BE CONNECTED WITH GND)
64	TITO	TEST OUTPUT (TO BE LEFT OPEN)
36	TNDO	TEST OUTPUT (TO BE LEFT OPEN)
37	TRMO	TEST OUTPUT (TO BE LEFT OPEN)
35	TVMO	TEST OUTPUT (TO BE LEFT OPEN)

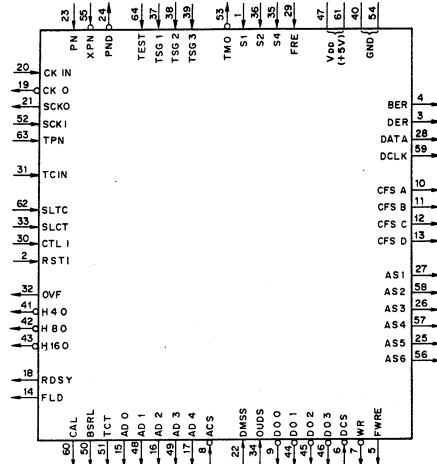
CX7912 (SONY)
CX7912A (SONY)
C-MOS TIME CODE READER
— TOP VIEW —



INDEX DOT

PIN ASSIGNMENT

PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1	O		ST	17	O		AD 4	33	O		SLCT
2	O		RSTI	18	O		RDSY	34	O		OUDS
3	O		DER	19	O		CK 0	35	O		S4
4	O		BER	20	O		CK IN	36	O		S2
5	O		FWRE	21	O		SCKO	37	O		TSG 1
6	O		DCS	22	O		DMSS	38	O		TSG 2
7	O		WR	23	O		PN	39	O		TSG 3
8	O		ACS	24	O		PND	40	O		GND
9	O		DO 0	25	O		AS 5	41	O		H 4 0
10	O		CFS A	26	O		AS 3	42	O		H 8 0
11	O		CFS B	27	O		AS 1	43	O		H 16 0
12	O		CFS C	28	O		DATA	44	O		DO 1
13	O		CFS D	29	O		FRE	45	O		DO 2
14	O		FLD	30	O		CTL I	46	O		DO 3
15	O		AD 0	31	O		TC IN	47	O		TPN
16	O		AD 2	32	O		OVF	48	O		AD 1
								49	O		TEST



MODE SELECT

SLCT	SLCTC	MODE
0	0	AUTO
0	1	TIME CODE
1	0	CTL
1	1	AUTO

CTL COUNT

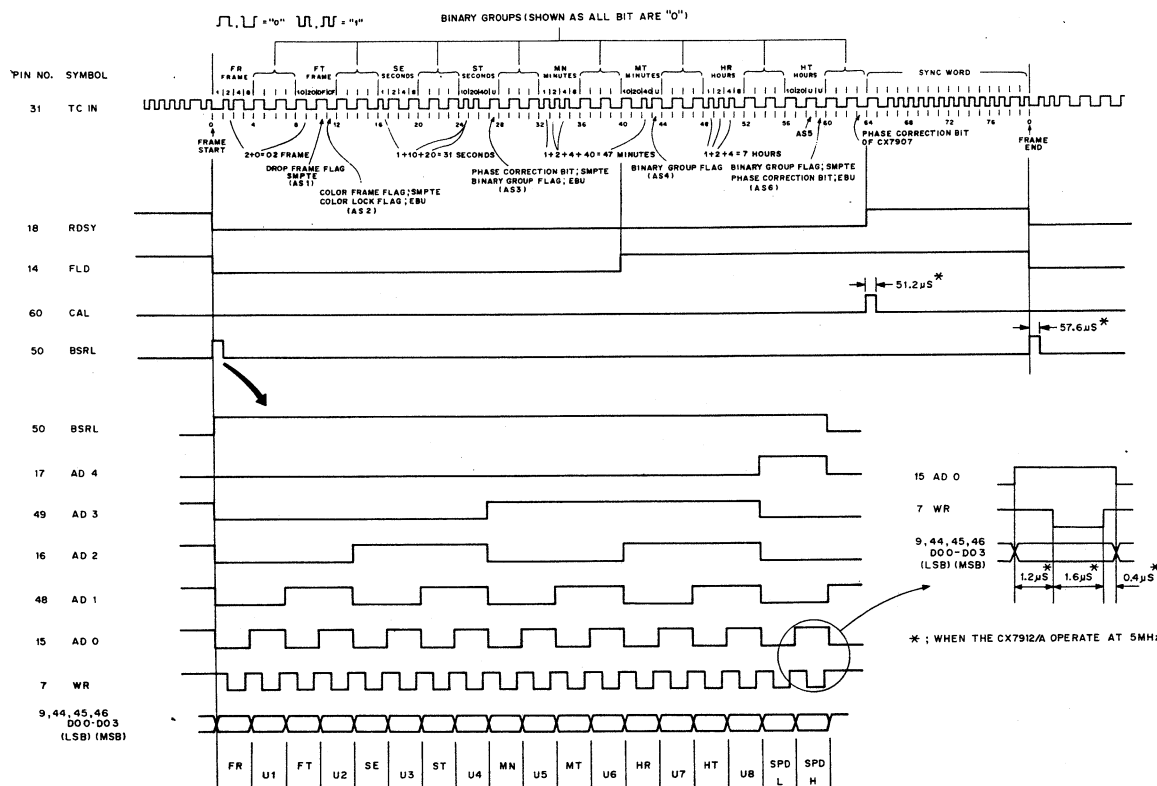
FRE	RSTI	COUNT
0	X	DOWN COUNT
1	X	UP COUNT
X	L	RESET

SIGNAL FORMAT SELECT

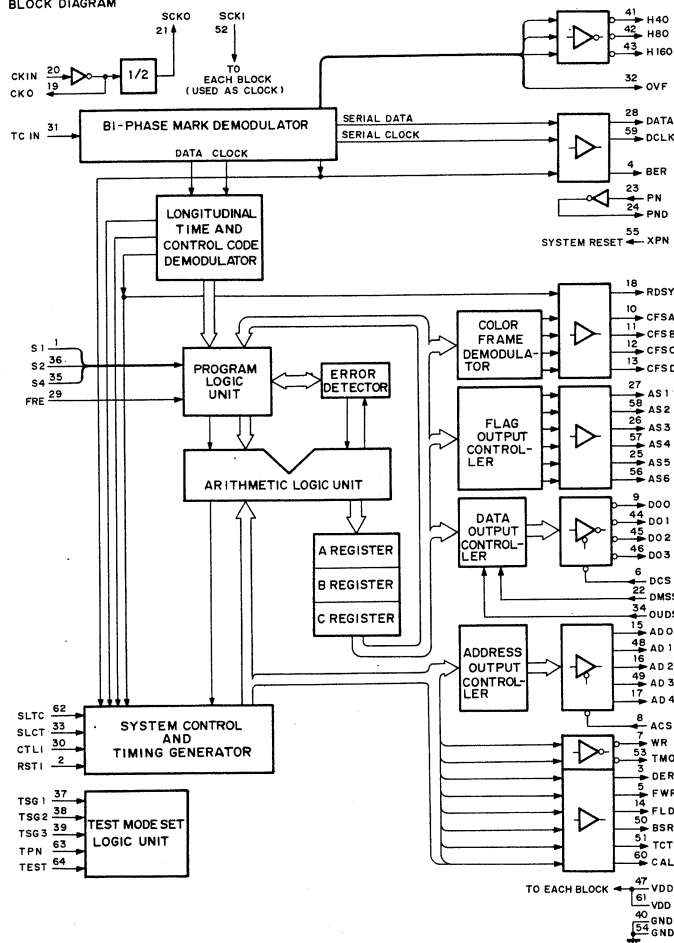
S4	S2	S1	FORMAT	FRAME
0	0	0	FILM	24
0	0	1		
0	1	0	NOT ALLOWED	
0	1	1		
1	0	0	PAL, SECAM	25
1	0	1	NOT ALLOWED	
1	1	0	NTSC (NON DROP FRAME)	30
1	1	1	NTSC (DROP FRAME)	30

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE

TIMING CHART



BLOCK DIAGRAM



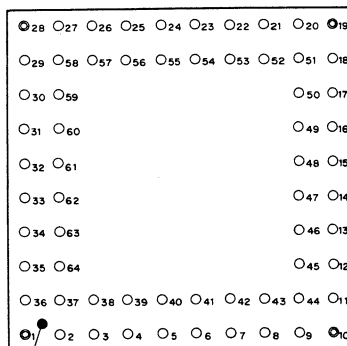
FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
15	AD0	ADDRESS DATA OUTPUT
48	AD1	
16	AD2	
49	AD3	
17	AD4	
27	AS1	PARALLEL DATA OUTPUT
58	AS2	
26	AS3	
57	AS4	
25	AS5	
56	AS6	BI-PHASE MARK ERROR (BIT ERROR) OUTPUT
4	BER	
50	BSRL	
60	CAL	
10	CPSA	
11	CPSB	DEMODULATED COLOR FRAME OUTPUT
12	CFSC	
13	CFSD	
20	CKIN	
20	CKO	
19	CTL1	CLOCK INPUT
30	CTL2	CLOCK OUTPUT (NEGATIVE-LOGIC)
28	DATA	CTL SIGNAL INPUT (1)
59	DCLK	DEMODULATED SERIAL DATA OUTPUT
6	DCS	DEMODULATED CLOCK OUTPUT
3	DER	DATA LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
22	DMSS	DEMODULATE DATA ERROR OUTPUT
9	DO0	ASSIGNED DATA SELECT
44	DO1	DATA OUTPUT (NEGATIVE-LOGIC)
45	DO2	
46	DO3	
14	FLD	
29	FRE	
5	FWRE	FIELD DATA OUTPUT
41	H40	CTL DIRECTION SIGNAL INPUT
42	H80	DEMODULATE DIRECTION SIGNAL OUTPUT
43	H160	SPEED RANGE FLAG 4 OUTPUT (NEGATIVE-LOGIC)
34	ODS	SPEED RANGE FLAG 8 OUTPUT (NEGATIVE-LOGIC)
32	OVS	SPEED RANGE FLAG 16 OUTPUT (NEGATIVE-LOGIC)
23	PN	ERROR BYPASS ON/OFF SELECT
24	PND	OVERFLOW FLAG OUTPUT
18	RDSY	POWER ON SIGNAL INPUT
2	RSTI	POWER ON SIGNAL OUTPUT (NEGATIVE-LOGIC)
1	S1	READ SYNC WORD DATA OUTPUT
36	S2	CTL TIMER RESET INPUT (1)
35	S4	SIGNAL FORMAT SELECT S1
52	SCKI	SIGNAL FORMAT SELECT S2
21	SCKO	SIGNAL FORMAT SELECT S4
33	SLCT	SYSTEM CLOCK INPUT
62	SLTC	SYSTEM CLOCK OUTPUT
55	XPN	SELECT CTL INPUT
15	AD0	SELECT LTC INPUT
48	AD1	SYSTEM RESET SIGNAL INPUT (NEGATIVE-LOGIC)
16	AD2	LONGITUDINAL TIME AND CONTROL CODE INPUT
49	AD3	INPUT SELECT FLAG OUTPUT
17	AD4	TIME OVER SIGNAL OUTPUT (NEGATIVE-LOGIC)
7	7	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
61	VDD	
40	GND	
54	GND	GND LINE
64	TEST	
63	TPN	
37	TSG1	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
38	TSG2	
39	TSG3	

CX7913 (SONY)

C-MOS VITC (VERTICAL INTERVAL TIME CODE) READER

- TOP VIEW -

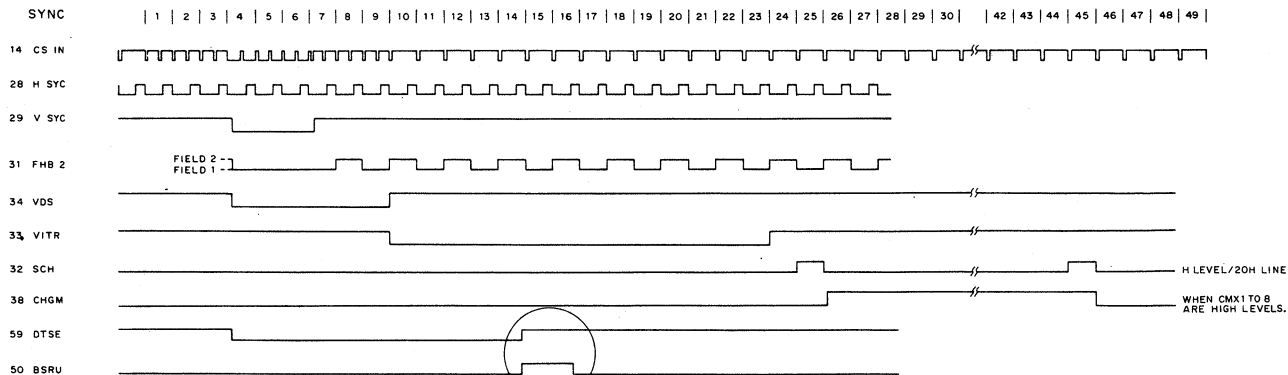


INDEX DOT

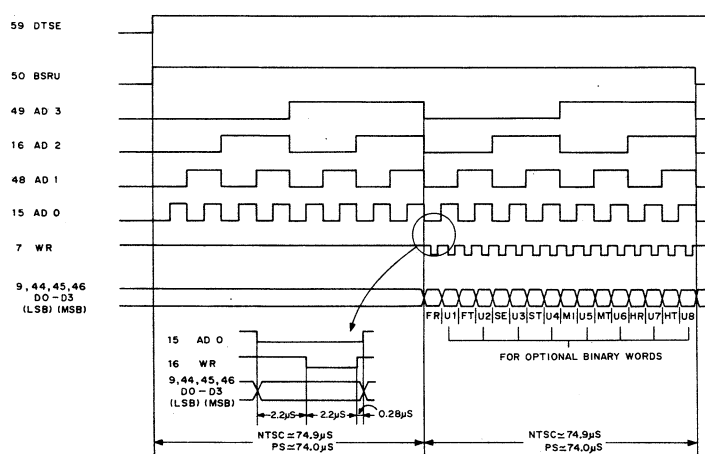
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1	O		CMX 1	17	O		VIUD	33	O		VITR	49	O		AD 3
2	O		CMX 2	18	O		VITC	34	O		VDS	50	O		BSRU
3	O		CMX 4	19		O	CK O	35	O		FBS 3	51	O		D CLK
4	O		CMX 8	20	O		CK IN	36	O		FBS 1	52	O		SCK I
5	O		TS A	21		O	SCK O	37	O		FBS 2	53	O		TS C
6	O		D CS	22	O		DMSS	38	O		CHGM	54			GND
7	O		WR	23	O		PN	39	O		TS B	55	O		TS D
8	O		A CS	24		O	RVIT	40			GND	56	O		HT 8
9		O	D O	25		O	HT 4	41	O		TS 1	57	O		MT 8
10		O	CFS A	26		O	ST 8	42	O		TS 2	58	O		FT 8
11		O	CFS B	27		O	FT 4	43	O		TS 3	59	O		DTSE
12		O	CFS C	28		O	H SYNC	44	O		D 1	60			FLDT
13		O	CFS D	29		O	V SYNC	45	O		D 2	61	O		VDD(+5V)
14	O		CS IN	30		O	NESY	46	O		D 3	62	O		FRE
15		O	AD 0	31		O	FHB 2	47	O		VDD(+5V)	63	O		SDWN
16		O	AD 2	32		O	SCH	48	O		AD 1	64	O		SLLM

TIMING CHART

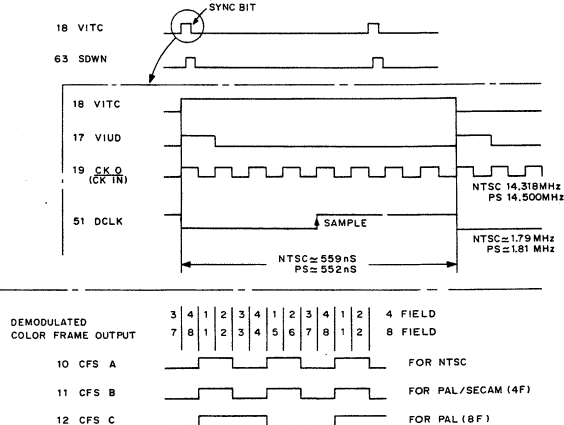
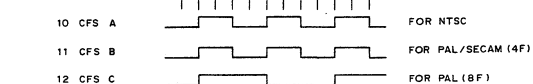
SYNC



DATA OUTPUT



DEMODULATED

DEMODULATED
COLOR FRAME OUTPUT

#36,37,35 FBS1-FBS3 FIELD BIT DATA SELECT

FBS 3	FBS 2	FBS 1	#60 FLDT OUTPUTS
0	0	0	FT 4
0	0	1	FT 8
0	1	0	ST 8
0	1	1	MT 8
1	0	0	HT 4
1	0	1	HT 8
1	1	0	—
1	1	1	—

#1,2,3,4 CHARACTER MIX TIMING SELECT

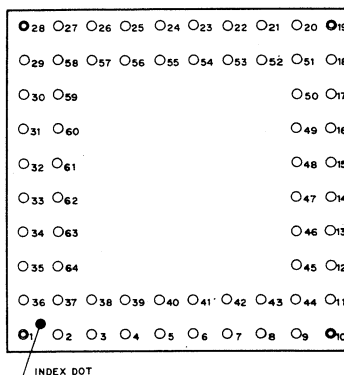
CMX B	CMX 4	CMX 2	CMX 1	INSERTION LINES(#36 CHGM IS HIGH)	
				NTSC	PAL/SECAM
0	0	0	0	—	—
0	0	0	1	—	—
0	0	1	0	—	—
0	0	1	1	—	263 ~ 282 , 575 ~ 594
0	1	0	0	246 ~ 265	243 ~ 262 , 555 ~ 574
0	1	0	1	226 ~ 245	223 ~ 242 , 535 ~ 554
0	1	1	0	206 ~ 225	203 ~ 222 , 515 ~ 534
0	1	1	1	186 ~ 205	183 ~ 202 , 495 ~ 514
1	0	0	0	166 ~ 185	163 ~ 182 , 475 ~ 494
1	0	0	1	146 ~ 165	143 ~ 162 , 455 ~ 474
1	0	1	0	126 ~ 145	123 ~ 142 , 435 ~ 454
1	0	1	1	106 ~ 125	103 ~ 122 , 415 ~ 434
1	1	0	0	86 ~ 105	83 ~ 102 , 395 ~ 414
1	1	0	1	66 ~ 85	63 ~ 82 , 375 ~ 394
1	1	1	0	46 ~ 65	43 ~ 62 , 355 ~ 374
1	1	1	1	26 ~ 45	23 ~ 42 , 335 ~ 354

NOTE 0; LOW LEVEL
1; HIGH LEVEL

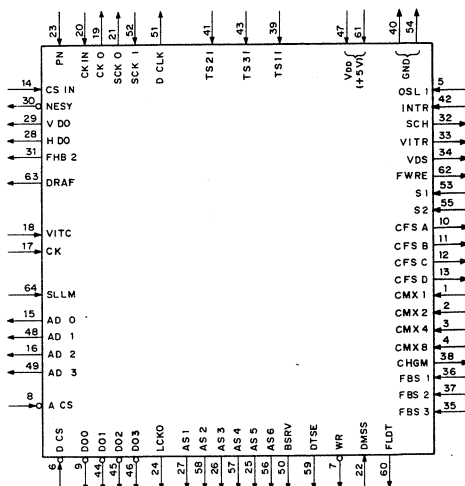
FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	A CS	ADDRESS LINE CHIP SELECT INPUT (NEGATIVE-LOGIC)
15	AD 0	ADDRESS LINE
48	AD 1	
16	AD 2	
49	AD 3	
50	BSRU	DATA BUS OUTPUT STATE
10	CFS A	DEMODULATED COLOR FRAME OUTPUT
11	CFS B	
12	CFS C	
13	CFS D	
38	CHGM	CHARACTER MIX GATE SIG OUTPUT
20	CK IN	CLOCK IN
19	CK O	CLOCK OUT
1	CMX 1	CHARACTER MIX TIMING SELECT INPUT
2	CMX 2	
3	CMX 4	
4	CMX 8	
14	CS IN	COMPOSITE SYNC (C SYNC) INPUT
51	D CLK	DATA SAMPLING CLOCK OUTPUT
6	D CS	DATA LINE CHIP SELECT (NEGATIVE-LOGIC)
22	DMSS	DATA MIX/SEPARATE SELECT INPUT
9	D 0	PARALLEL OUTPUT DATA LINE (NEGATIVE-LOGIC)
44	D 1	
45	D 2	
46	D 3	
69	DTSE	VALID DATA OUTPUT STATE
36	FBS 1	FIELD BIT DATA SELECT
37	FBS 2	
35	FBS 3	
31	FHB 2	1/2 H SYNC OUTPUT
60	FLDT	FIELD BIT DATA OUTPUT
62	FRE	FORWARD/REVERSE OUTPUT (LOW LEVEL; FORWARD)
27	FT 4	SPECIFIED BIT DATA OUTPUT
58	FT 8	
28	H SYNC	H SYNC OUTPUT
25	HT 4	SPECIFIED BIT DATA OUTPUT
66	HT 8	
57	MT 8	
30	NESY	C SYNC INPUT STATE (NEGATIVE-LOGIC)
23	PN	RESET INPUT
24	RVIT	SERIAL OUTPUT DATA LINE
32	SCH	CHARACTER MIX GATE OUTPUT
21	SCK 0	SYSTEM CLOCK OUTPUT (1/16 CLOCK)
52	SCK 1	SYSTEM CLOCK INPUT
63	SDWN	INTERNAL SYNC OUTPUT
64	SLLM	READ SIZE SELECT
26	ST 8	SPECIFIED BIT DATA OUTPUT
24	VDS	INTERNAL SYNC OUTPUT
18	VITC	CLIPPED VIDEO INPUT
33	VITR	VITC READ STATE OUTPUT (NEGATIVE-LOGIC)
17	VIUD	CLIPPED VIDEO EDGE INPUT
29	V SYNC	V SYNC OUTPUT
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
47	VDD	DC +5V SUPPLY
61	VDD	
40	GND	
54	GND	
41	TS 1	TEST INPUT (CONNECT WITH GND)
42	TS 2	
43	TS 3	
5	TS A	
39	TS B	
53	TS C	
55	TS D	

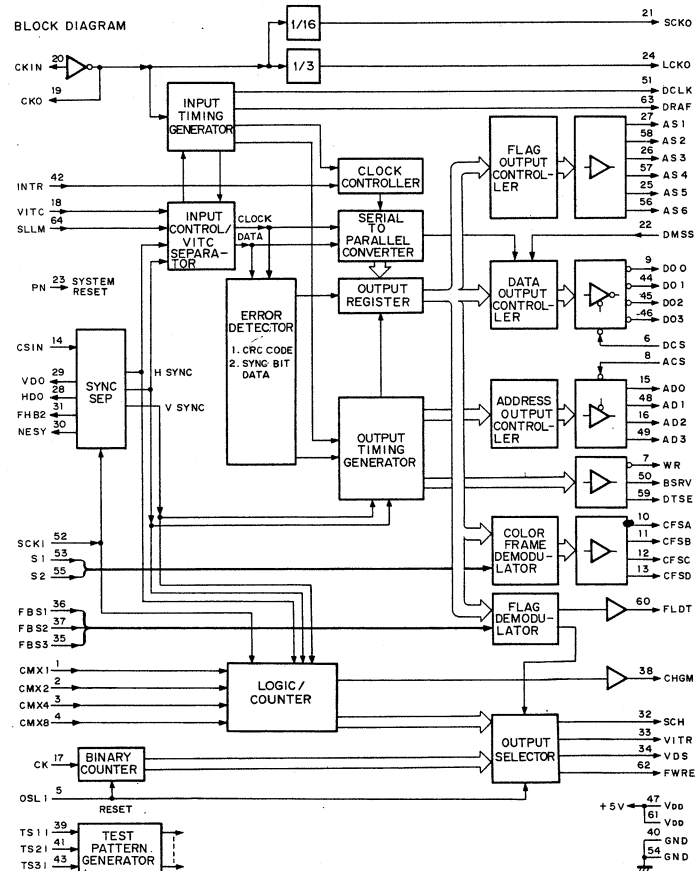
CX7913A (SONY)
C-MOS VITC (VERTICAL INTERVAL TIME CODE) READER
— TOP VIEW —



PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			CMX 1	17			CK	33			VITC	49			AD 3
2			CMX 2	18			VITC	34			VDS	50			BSRV
3			CMX 4	19			CK 0	35			FBS 3	51			D CLK
4			CMX 8	20			CK IN	36			FBS 1	52			SCK 1
5			OSL 1	21			SCK 0	37			FBS 2	53			S1
6			D CS	22			DMSS	38			CHGM	54			GND
7			WR	23			PN	39			TS11	55			S2
8			ACS	24			LCKO	40			GND	56			AS6
9			DO 0	25			AS5	41			TS21	57			AS4
10			CFS A	26			AS3	42			INTR	58			AS2
11			CFS B	27			AS1	43			TS31	59			DTSE
12			CFS C	28			HDO	44			DO 1	60			FLDT
13			CFS D	29			VDO	45			DO 2	61			VDD(+5V)
14			CS IN	30			NESY	46			DO 3	62			FWRE
15			AD 0	31			FHB 2	47			VDD(+5V)	63			DRAF
16			AD 2	32			SCH	48			AD 1	64			SLLM



BLOCK DIAGRAM



FUNCTIONAL PIN DEFINITION

Pin No. SYMBOL DESCRIPTION

8	ACS	ADDRESS LINE ENABLE INPUT
15	AD0	
48	AD1	
16	AD2	ADDRESS DATA OUTPUT
49	AD3	
27	AS1	
58	AS2	
26	AS3	PARALLEL DATA OUTPUT
57	AS4	
25	AS5	
56	AS6	
50	BSRV	DATA OUT FLAG OUTPUT
10	CPSA	
11	CFSB	DEMODULATED COLOR FRAME OUTPUT
12	CFSC	
13	CFSD	
38	CHGM	CHARACTER V POSITION GATE SIGNAL OUTPUT
17	CK	INTERNAL COUNTER CLOCK INPUT
20	CKIN	CLOCK INPUT
19	CKO	CLOCK OUTPUT (NEGATIVE-LOGIC)
1	CMX1	
2	CMX2	
3	CMX4	CHARACTER V POSITION SELECT INPUT
4	CMX8	
14	CSIN	COMPOSITE SYNC INPUT
51	DCLK	VITC READ CLOCK OUTPUT
6	DCS	DATA LINE ENABLE INPUT
22	DMSS	ASSIGNED BIT DATA SELECT INPUT
9	DO0	
44	DO1	DATA OUT (NEGATIVE-LOGIC)
45	DO2	
46	DO3	
63	DRAF	VITC SYNCHRONIZE SIGNAL D OUTPUT
59	DTSE	VITC DATA SEARCH FLAG OUTPUT
36	FBS1	FIELD MARK POSITION SELECT 1 INPUT
37	FBS2	FIELD MARK POSITION SELECT 2 INPUT
35	FBS3	FIELD MARK POSITION SELECT 3 INPUT
31	FHB2	PH/2 SIGNAL OUTPUT
60	FLDT	FIELD DATA OUTPUT
62	FWRE	TAPE DIRECTION SIGNAL OUTPUT
28	HDO	HORIZONTAL SYNC DRIVE OUTPUT
42	INTR	INTERRUPT REQUEST INPUT
24	LCKO	LTC CLOCK OUTPUT
30	NESY	LOST-SYNC FLAG OUTPUT
5	OSL1	OUTPUT SIGNAL SELECT 1 INPUT
23	PN	POWER ON RESET INPUT
53	S1	SIGNAL FORMAT SELECT S1 INPUT
55	S2	SIGNAL FORMAT SELECT S2 INPUT
32	SCH	OUTPUT SIGNAL SCH
52	SCK1	SYSTEM CLOCK INPUT
21	SCKO	SYSTEM CLOCK OUTPUT
64	SLLM	READ SIZE SELECT INPUT
29	VDO	VERTICAL SYNC DRIVE OUTPUT
34	VDS	OUTPUT SIGNAL VDS
18	VITC	VITC SIGNAL INPUT
33	VITR	OUTPUT SIGNAL VITR
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
61	VDD	
40	GND	GND LINE
54	GND	
39	TS11	
41	TS21	TEST INPUT
43	TS31	

#1,2,3,4 CMX1 TO 8; CHARACTER V POSITION SELECT

CMX8	CMX4	CMX2	CMX1	INSERTION LINE (#38 CHGM IS H LEVEL)	
				NTSC	PAL, SECAM
0	0	0	0	---	---
0	0	0	1	---	284-303
0	0	1	0	---	596-615
0	0	1	1	---	264-283
0	1	0	0	227-246	576-595
0	1	0	1	---	244-263
0	1	1	0	207-226	556-575
0	1	1	1	---	224-243
1	0	0	0	---	536-555
1	0	0	1	---	204-223
1	0	1	0	187-206	516-535
1	0	1	1	---	184-203
1	1	0	0	---	496-515
1	1	0	1	167-186	476-495
1	1	1	0	---	144-163
1	1	1	1	---	456-475
1	0	0	1	127-146	436-455
1	0	1	0	---	104-123
1	0	1	1	---	416-435
1	1	0	0	---	84-103
1	1	0	1	87-106	396-415
1	1	1	0	---	64-83
1	1	1	1	---	376-395
1	0	0	0	---	44-63
1	0	0	1	---	356-375
1	0	1	0	---	24-43
1	0	1	1	---	336-355

#36,37,35 FBS1 TO FBS3; FIELD DATA SELECT

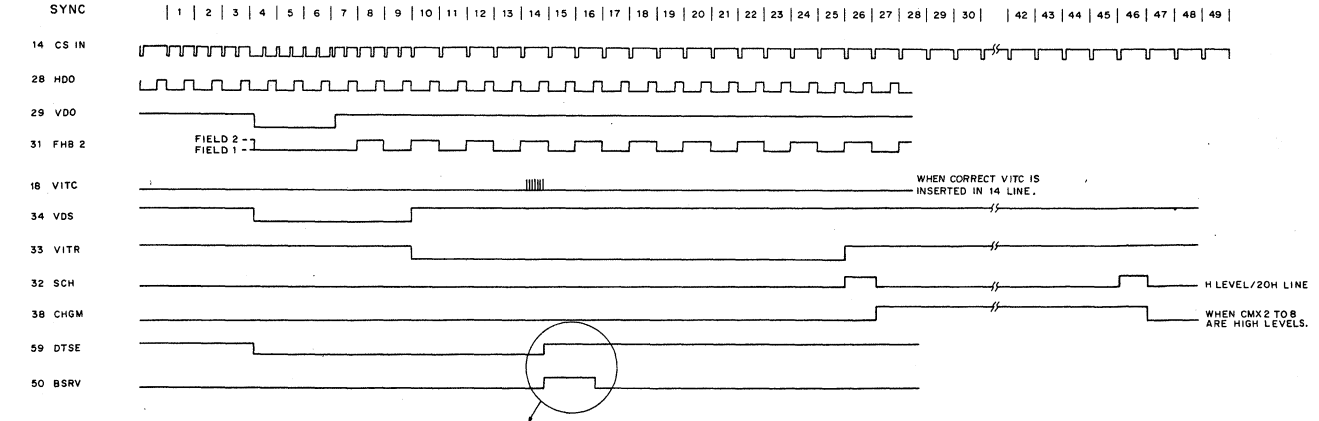
FBS3	FBS2	FBS1	#60 FLDT OUTPUT
0	0	0	AS1 (VITC BIT No.14)
0	0	1	AS2 (VITC BIT No.15)
0	1	0	AS3 (VITC BIT No.35)
0	1	1	AS4 (VITC BIT No.55)
1	0	0	AS5 (VITC BIT No.74)
1	0	1	AS6 (VITC BIT No.75)
1	1	0	-----
1	1	1	-----

#53,55 S1,S2; SIGNAL FORMAT SELECT

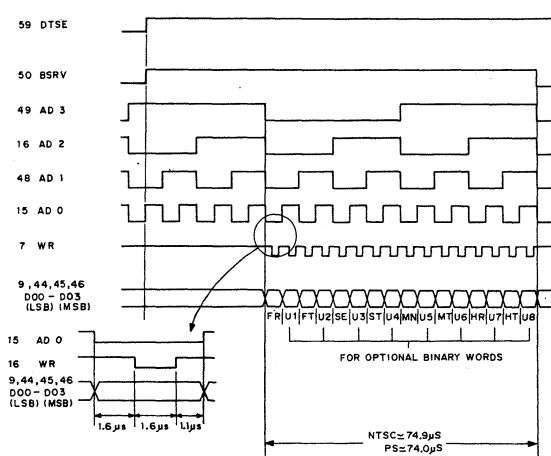
S2	S1	#13 CFSD FORMAT
0	0	UNSPECIFIED
0	1	UNSPECIFIED
1	0	NTSC NON DROP FRAME
1	1	NTSC DROP FRAME

0: LOW LEVEL
1: HIGH LEVEL

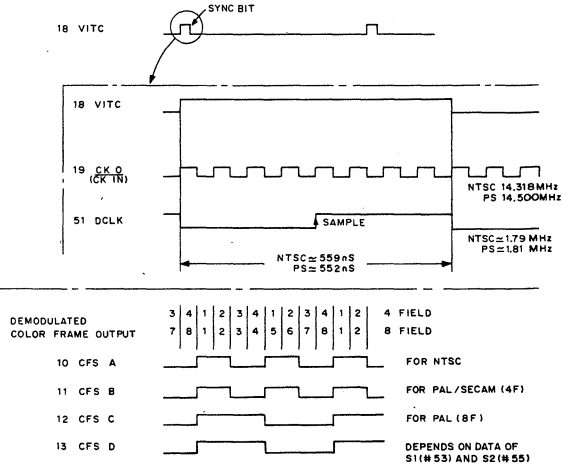
TIMING CHART



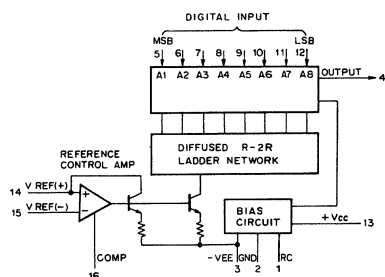
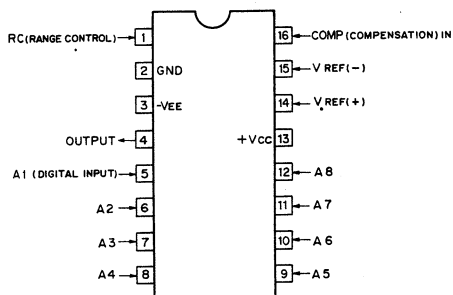
DATA OUTPUT



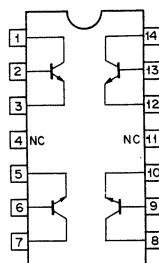
DEMODULATED



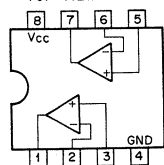
DAC-IC88C (DATEL)
8-BIT DIGITAL-TO-ANALOG CONVERTER
— TOP VIEW —



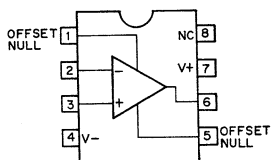
FT5709M (FUJITSU)
TRANSISTOR ARRAY
— TOP VIEW —



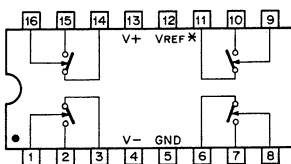
HA17458GS (HITACHI)
OPERATIONAL AMPLIFIER
— TOP VIEW —



HA17741GS (HITACHI)
OPERATIONAL AMPLIFIER
— TOP VIEW —



HI1-0201-5 (HARRIS)
HI1-201 (HARRIS)
C-MOS ANALOG SWITCH
— TOP VIEW —



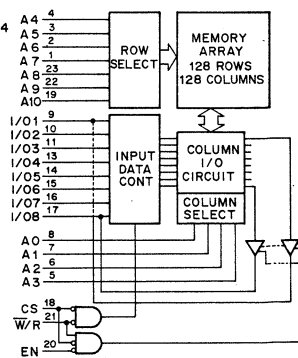
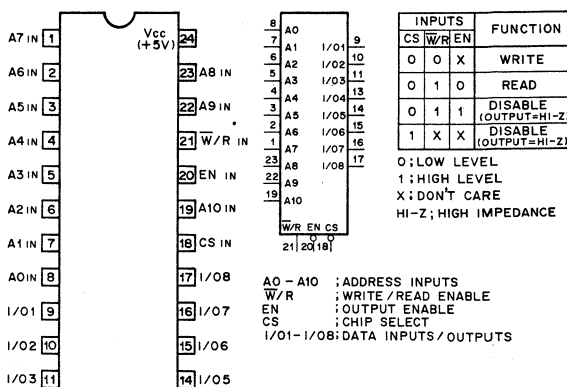
CONT IN	SW
0	Open
1	Closed

0; LOW LEVEL
1; HIGH LEVEL

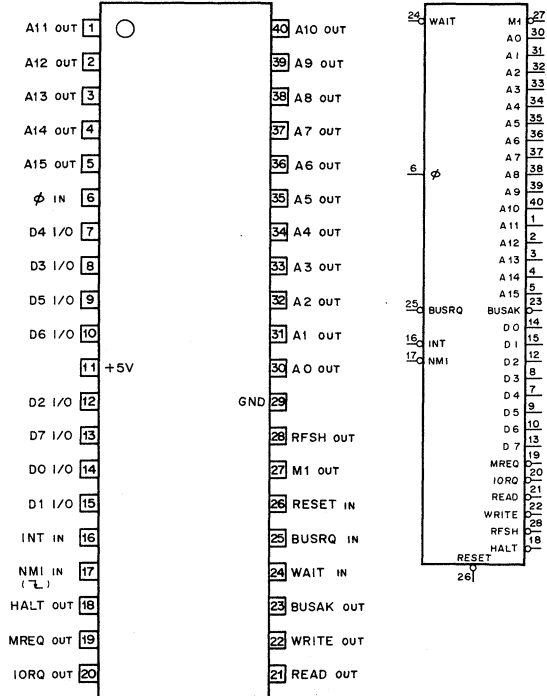
* NOTE

INTERFACE	VREF CONNECTION
TTL	OPEN
C-MOS	$V_{DD} \leq 5.5V$; OPEN
	$V_{DD} > 5.5V$; TO V_{DD}

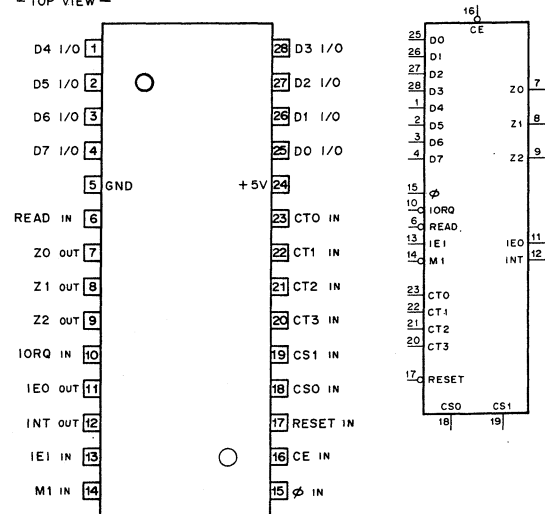
HM6116LP-2 (HITACHI) (ACCESS TIME = 120 ns)
HM6116LP-3 (HITACHI) (ACCESS TIME = 150 ns)
HM6116LP-4 (HITACHI) (ACCESS TIME = 200 ns)
MSM5128-12RS (OKI) (ACCESS TIME = 120 ns)
MSM5128-15RS (OKI) (ACCESS TIME = 150 ns)
MSM5128-20RS (OKI) (ACCESS TIME = 200 ns)
C-MOS 16384(2048x8)-BIT HIGH SPEED STATIC RAM
— TOP VIEW —



LH0080 (SHARP)
 LH0080A (SHARP)
 μ PD780C (NEC)
 μ PD780C-1 (NEC)
 Z80 (ZILOG)
 Z80A (ZILOG)
 N-MOS 8-BIT MICROPROCESSOR
 - TOP VIEW -



LH0082 (SHARP)
 LH0082A (SHARP)
 Z80-CTC (ZILOG)
 Z80A-CTC (ZILOG)
 N-MOS COUNTER TIMER CIRCUIT
 - TOP VIEW -

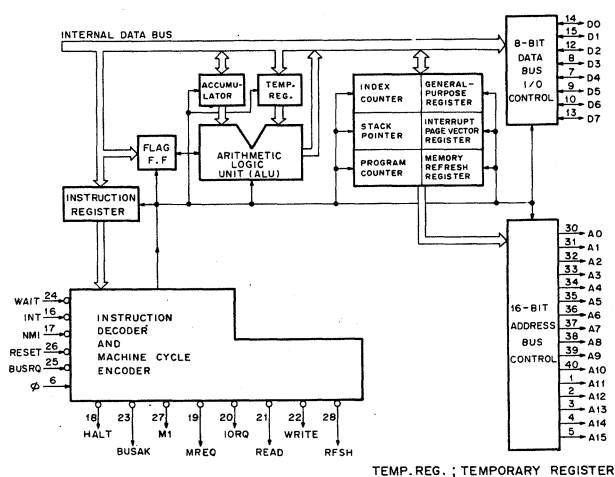


ϕ : SYSTEM CLOCK
 CE : CHIP ENABLE
 CS0, CS1 : CHANNEL SELECT
 CT0-CT3 : EXTERNAL CLOCK/TIMER TRIGGER
 DO-D7 : 3-STATE DATA INPUT/OUTPUT
 IEI : INTERRUPT ENABLE INPUT
 IEO : INTERRUPT ENABLE OUTPUT
 INT : INTERRUPT REQUEST (OPEN DRAIN)
 IORQ : I/O REQUEST
 M1 : MACHINE CYCLE 1
 READ : READ CYCLE STATUS
 Z0-Z2 : ZERO COUNT/TIME OUT

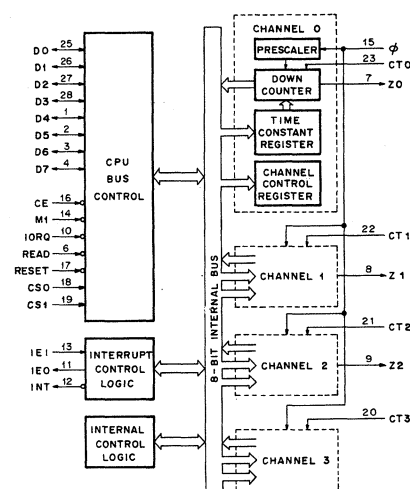
CHANNEL SELECT FUNCTION

CS1	CS0	SELECTED CHANNEL
0	0	0
0	1	1
1	0	2
1	1	3

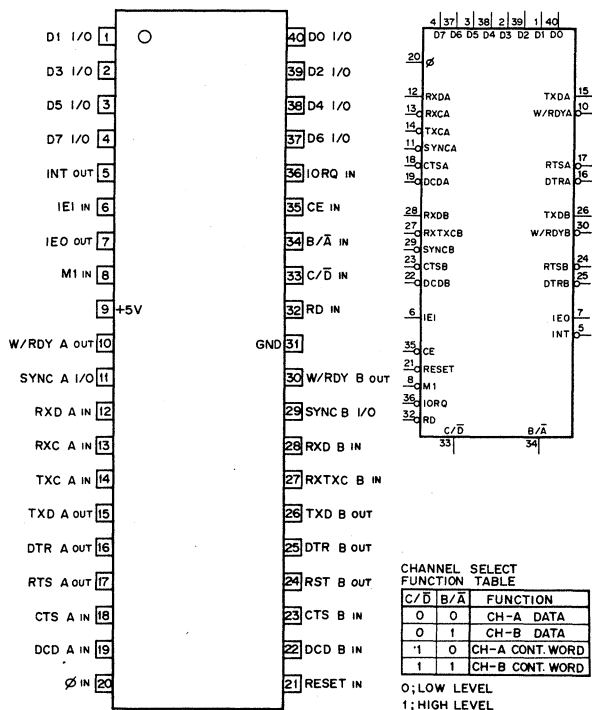
0: LOW LEVEL
 1: HIGH LEVEL



ϕ : CLOCK
 A0-A15 : 3-STATE ADDRESS OUTPUT
 BUSAK : BUS ACKNOWLEDGE
 BUSRQ : BUS REQUEST
 DO-D7 : 3-STATE DATA INPUT/OUTPUT
 HALT : HALT STATE
 INT : INTERRUPT REQUEST
 IORQ : 3-STATE I/O REQUEST
 M1 : MACHINE CYCLE 1
 MREQ : 3-STATE MEMORY REQUEST
 NM I : NON-MASKABLE INTERRUPT (DOWN EDGE TRIGGER)
 READ : 3-STATE MEMORY READ
 RFSH : REFRESH
 WRITE : 3-STATE MEMORY WRITE



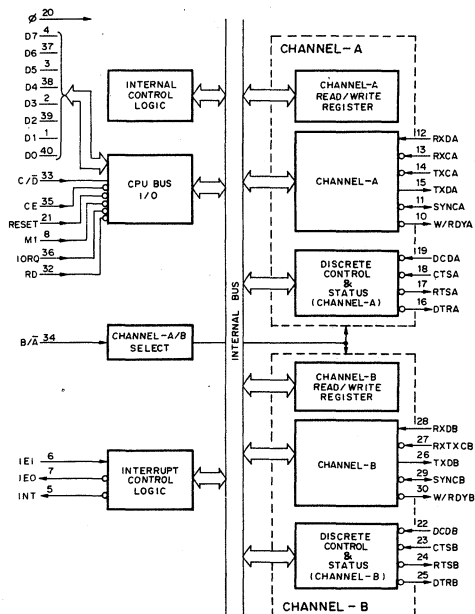
LH0084 (SHARP)
 LH0084A (SHARP)
 Z80-SIO/O (ZILOG)
 Z80A-SIO/O (ZILOG)
 N-MOS 2-CHANNEL SERIAL INPUT/OUTPUT
 FOR MICROCOMPUTER SYSTEM
 — TOP VIEW —



CHANNEL SELECT FUNCTION TABLE

C/D	B/A	FUNCTION
0	0	CH-A DATA
0	1	CH-B DATA
1	0	CH-A CONT. WORD
1	1	CH-B CONT. WORD

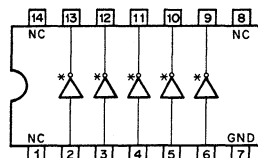
0; LOW LEVEL
1; HIGH LEVEL



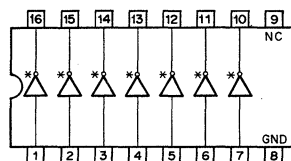
\emptyset : SYSTEM CLOCK IN
 D7-D0 : DATA I/O
 C/D : CONTROL/DATA SELECT IN
 CE : CHIP ENABLE IN
 M1 : MACHINE CYCLE 1 IN
 IORQ : I/O REQUEST IN
 RD : READ IN
 B/A : CHANNEL B/A SELECT IN
 IEI : INTERRUPT ENABLE IN
 IEO : INTERRUPT ENABLE OUT
 INT : INTERRUPT OUT

RXD : RECEIVE DATA IN
 RXC : RECEIVE CLOCK IN
 TXC : TRANSMIT CLOCK IN
 TXD : TRANSMIT DATA OUT
 SYNC : EXTERNAL CHARACTER SYNCHRONIZATION I/O
 W/RDY : WAIT/READY OUT
 DCD : DATA CARRIER DETECT IN
 CTS : CLEAR TO SEND IN
 RTS : REQUEST TO SEND OUT
 DTR : DATA TERMINAL READY OUT

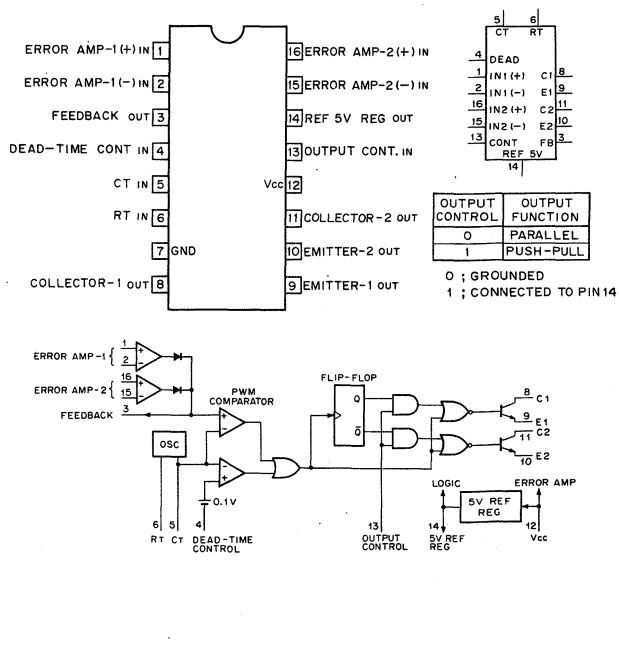
M54516P (MITSUBISHI)
 INVERTER WITH OPEN-COLLECTOR
 (DARLINGTON-CONNECTED TRANSISTOR ARRAY)
 — TOP VIEW —



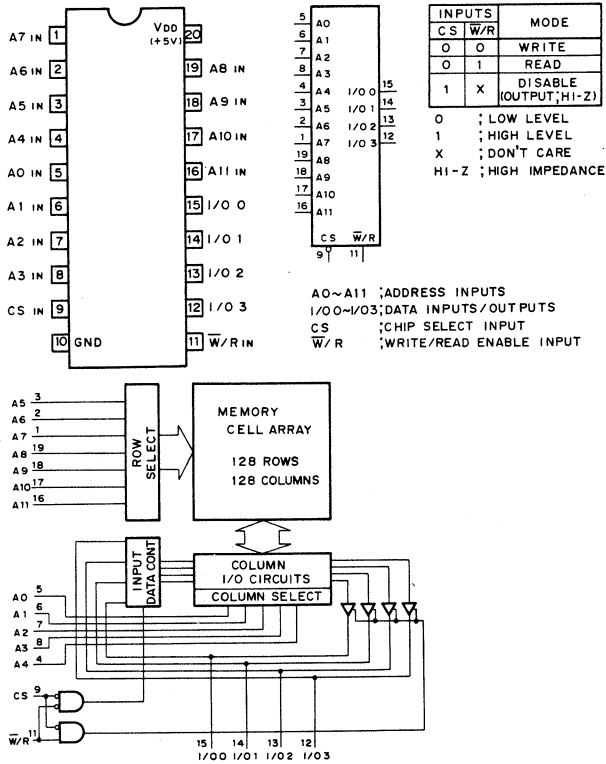
M54517P (MITSUBISHI)
 INVERTER WITH OPEN-COLLECTOR
 (DARLINGTON-CONNECTED TRANSISTOR ARRAY)
 — TOP VIEW —



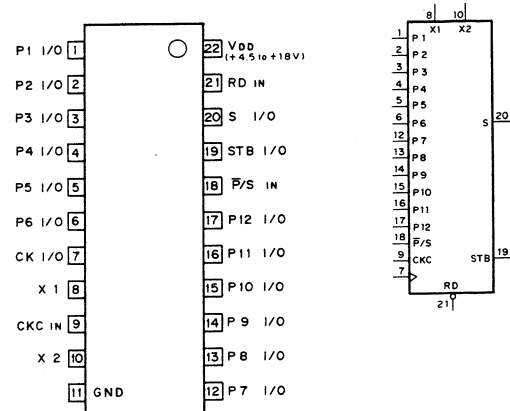
MB3759 (FUJITSU)
 PWM POWER CONTROL
 — TOP VIEW —



HM6168HP-45 (HITACHI) (ACCESS TIME = 45 nS)
 HM6168HP-55 (HITACHI) (ACCESS TIME = 55 nS)
 HM6168HP-70 (HITACHI) (ACCESS TIME = 70 nS)
 MB8168-45 (FUJITSU) (ACCESS TIME = 45 nS)
 MB8168-55 (FUJITSU) (ACCESS TIME = 55 nS)
 MB8168-70 (FUJITSU) (ACCESS TIME = 70 nS)
 MB8168-90 (FUJITSU) (ACCESS TIME = 90 nS)
 N-MOS 16384-BIT (4096x4) STATIC RAM
 — TOP VIEW —



MB8747 (FUJITSU)
 C-MOS SERIAL TO/FROM PARALLEL CONVERTER WITH OSCILLATOR
 — TOP VIEW —



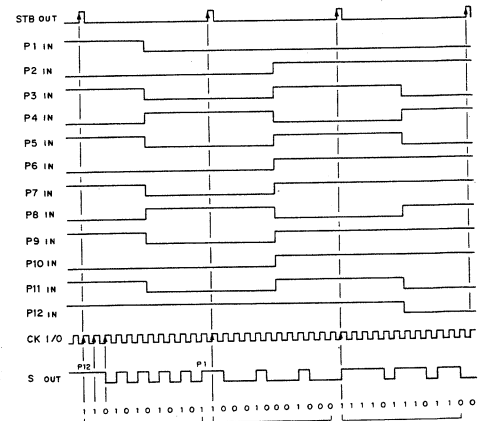
P1 to P12 : PARALLEL DATA IN/OUT
 CK : CLOCK IN/OUT
 CKC : CLOCK I/O CONTROL IN
 X1, X2 : X'TAL
 P/S : PARALLEL/SERIAL CONTROL IN
 STB : STROBE
 S : SERIAL DATA IN/OUT

CKC	CK
0	OUT
1	IN

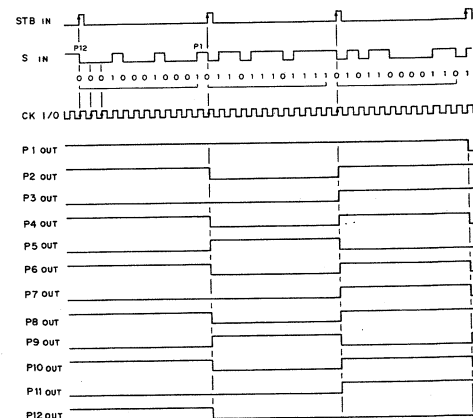
RD	P/S	MODE	P1 to P12	S	STB
0	0	OPEN	IN	HI-Z	OUT
0	1	RESET	0	IN	IN
1	0	P → S	IN	OUT	OUT
1	1	S → P	OUT	IN	IN

0 : LOW LEVEL
 1 : HIGH LEVEL
 HI-Z : HIGH IMPEDANCE
 P → S : PARALLEL → SERIAL CONV
 S → P : SERIAL → PARALLEL CONV

F/S = 0 RD = 1 (PARALLEL → SERIAL CONV)

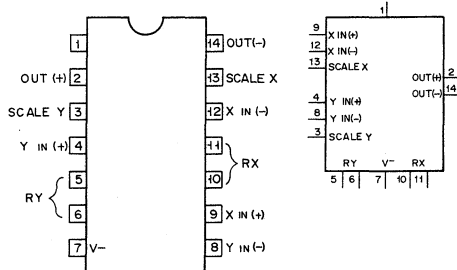


F/S = 1 RD = 1 (SERIAL → PARALLEL CONV)



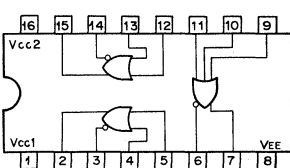
MC1595L (MOTOROLA)
LINEAR MULTIPLIER

—TOP VIEW—



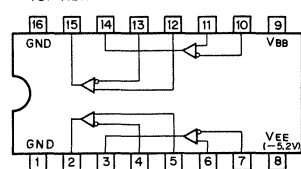
MC10105L (MOTOROLA)
HD10105 (HITACHI)
ECL 2-3-2-INPUT OR/NOR GATE

—TOP VIEW—



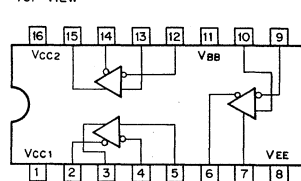
MC10115L (MOTOROLA)
ECL LINE RECEIVER

—TOP VIEW—



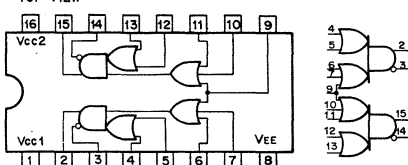
MC10116L (MOTOROLA)
HD10116 (HITACHI)
ECL DIFFERENTIAL OR/NOR LINE RECEIVER

—TOP VIEW—



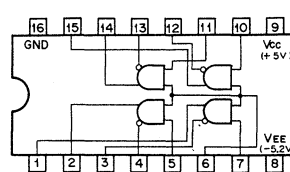
MC10117L (MOTOROLA)
HD10117 (HITACHI)
ECL 2-WIDE 2-3-INPUT OR-AND/OR-AND-INVERT GATE

—TOP VIEW—



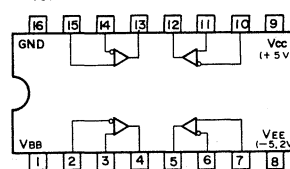
MC10124L (MOTOROLA)
HD10124 (HITACHI)
ECL TTL-TO-ECL TRANSLATOR

—TOP VIEW—



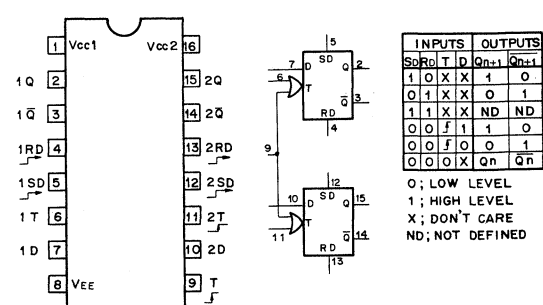
MC10125L (MOTOROLA)
HD10125 (HITACHI)
ECL ECL-TO-TTL TRANSLATOR

—TOP VIEW—



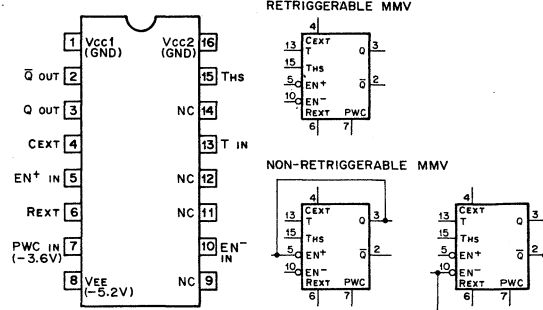
MC10131L (MOTOROLA)
HD10131 (HITACHI)
ECL D-TYPE FLIP FLOP

—TOP VIEW—



MC10198L (MOTOROLA)
RETRIGGERABLE MONOSTABLE MULTIVIBRATOR

—TOP VIEW—



T : CLOCK TRIGGER INPUT
THS : HIGH-SPEED CLOCK TRIGGER INPUT
EN⁺ : TRIGGER POSITIVE ENABLE
EN⁻ : TRIGGER NEGATIVE ENABLE
PWC : EXTERNAL PULSE WIDTH CONTROL

OUTPUT PULSE WIDTH : PWQ
PWQ = 1.19 · CEXT (REXT + 284)
WHERE

PWQ = SEC
CEXT = FARADS
REXT = OHMS
VEE = -5.2V
PWC = -3.6V

NOTE : SELECT REXT RANGING FROM ZERO TO 16K OHMS.
SELECT CEXT GREATER THAN 20PF.

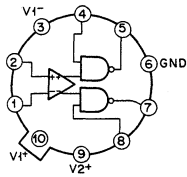
FUNCTION TABLE

EN ⁺	EN ⁻	TRIG. SLOPE
0	0	—
0	1	—
1	0	—
1	1	DISABLE

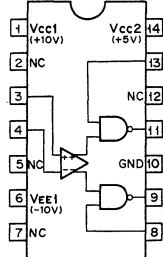
0; LOW LEVEL
1; HIGH LEVEL

NE527H (SIGNETICS)
 VOLTAGE COMPARATOR

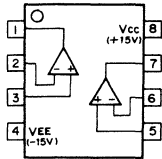
— BOTTOM VIEW —


NE527N (SIGNETICS)
 VOLTAGE COMPARATOR

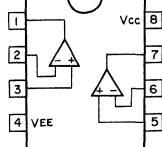
— TOP VIEW —


NJM2903D (JRC)
 OPERATIONAL AMPLIFIER

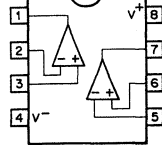
— TOP VIEW —


NJM4558D (JRC)
NJM4558DFA (JRC)
NJM4558DMD (JRC)
μPC4558C (NEC)
 OPERATIONAL AMPLIFIER

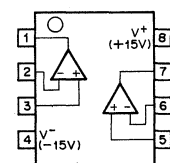
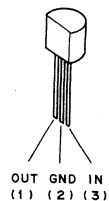
— TOP VIEW —


NJM4559D (JRC)
 OPERATIONAL AMPLIFIER

— TOP VIEW —

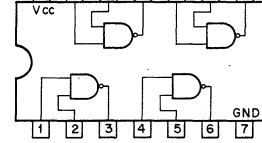

NJM4560D (JRC)
NJM4560DD (JRC)
NJM4560DN (JRC)
NJM4560DX (JRC)
 OPERATIONAL AMPLIFIER

— TOP VIEW —


NJM78L ? 7A (JRC)
 VOLTAGE REGULATOR

 2V NJM78L02A
 5V NJM78L05A
 6V NJM78L06A
 8V NJM78L08A
 9V NJM78L09A
 12V NJM78L12A
 15V NJM78L15A

SN7400N (TI)
M53200P (MITSUBISHI)
SN74S00N (TI)
SN74LS00N (TI)
HD74LS00P (HITACHI)
 TTL NAND GATE

— TOP VIEW —



$$A \text{ --- } B \text{ --- } Y = A \cdot B$$

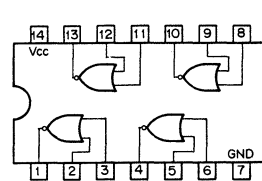
$$Y = A \cdot B = \overline{A + B}$$

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

 0: LOW LEVEL
 1: HIGH LEVEL

SN7402N (TI)
M53202P (MITSUBISHI)
SN74S02N (TI)
SN74LS02N (TI)
 TTL 2-INPUT POSITIVE-NOR GATE

— TOP VIEW —



$$A \text{ --- } B \text{ --- } Y = \overline{A + B}$$

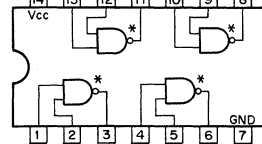
$$Y = \overline{A + B} = \overline{A} \cdot \overline{B}$$

A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

 0: LOW LEVEL
 1: HIGH LEVEL

SN7403N (TI)
SN74L03N (TI)
SN74S03N (TI)
SN74LS03N (TI)
 TTL 2-INPUT POSITIVE-NAND GATE WITH OPEN-COLLECTOR

— TOP VIEW —



$$A \text{ --- } B \text{ --- } Y = A \cdot B$$

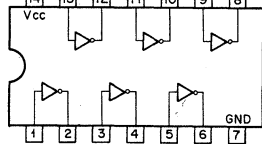
$$Y = A \cdot B = \overline{A + B}$$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

 0: LOW LEVEL
 1: HIGH LEVEL

SN7404N (TI)
M53204P (MITSUBISHI)
SN74L04N (TI)
SN74S04N (TI)
SN74LS04N (TI)
HD74LS04P (HITACHI)
 TTL INVERTER

— TOP VIEW —



$$A \text{ --- } Y = \overline{A}$$

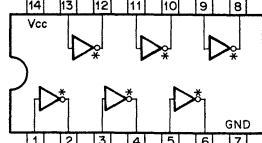
$$Y = \overline{A}$$

A	Y
0	1
1	0

 0: LOW LEVEL
 1: HIGH LEVEL

SN7405N (TI)
SN74LS05N (TI)
74LS05PC (FSC)
 TTL INVERTER WITH OPEN-COLLECTOR

— TOP VIEW —



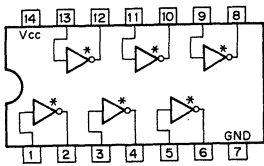
$$A \text{ --- } Y = \overline{A}$$

$$Y = \overline{A}$$

A	Y
0	1
1	0

 0: LOW LEVEL
 1: HIGH LEVEL
 *: OPEN COLLECTOR

SN7406N (TI)
HD7406P (HITACHI)
M53206P (MITSUBISHI)
TTL INVERTER BUFFER/DRIVER WITH OPEN-COLLECTOR
— TOP VIEW —

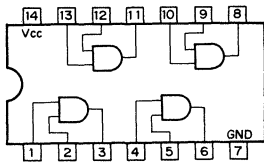


$A \rightarrow Y = A$
 $Y = \bar{A}$

A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL
*: OPEN COLLECTOR

SN7408N (TI)
SN74S08N (TI)
SN74LS08N (TI)
HD74LS08P (HITACHI)
TTL 2-INPUT POSITIVE-AND GATE
— TOP VIEW —

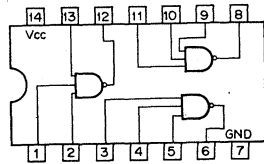


$A \cdot B \rightarrow Y = A \cdot B$
 $Y = A \cdot B = \overline{\overline{A} + \overline{B}}$

A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0: LOW LEVEL
1: HIGH LEVEL

SN7410N (TI)
SN74LS10N (TI)
SN74S10N (TI)
SN74LS10N (TI)
HD74LS10P (HITACHI)
TTL 3-INPUT POSITIVE-NAND GATE
— TOP VIEW —

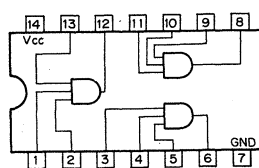


$A \cdot B \cdot C \rightarrow Y = \overline{A \cdot B \cdot C}$
 $Y = \overline{A \cdot B \cdot C} = \overline{A} + \overline{B} + \overline{C}$

A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

0: LOW LEVEL
1: HIGH LEVEL

SN74H11N (TI)
SN74S11N (TI)
SN74LS11N (TI)
TTL 3-INPUT POSITIVE-AND GATE
— TOP VIEW —

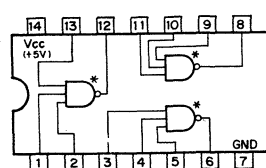


$A \cdot B \cdot C \rightarrow Y = A \cdot B \cdot C$
 $Y = A \cdot B \cdot C = \overline{\overline{A} + \overline{B} + \overline{C}}$

A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

0: LOW LEVEL
1: HIGH LEVEL

SN7412N (TI)
SN74LS12N (TI)
TTL 3-INPUT POSITIVE-NAND GATE WITH OPEN-COLLECTOR OUTPUT
— TOP VIEW —

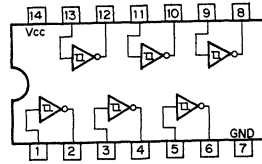


$A \cdot B \cdot C \rightarrow Y = \overline{A \cdot B \cdot C}$
 $Y = \overline{A \cdot B \cdot C} = \overline{A} + \overline{B} + \overline{C}$

A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

0: LOW LEVEL
1: HIGH LEVEL

SN7414N (TI)
SN74LS14N (TI)
TTL SCHMITT TRIGGER INVERTER
— TOP VIEW —



$A \rightarrow Y = \overline{A}$
 $Y = \overline{A}$

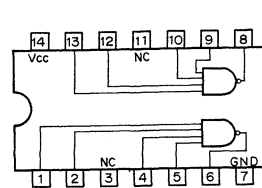
V IN \rightarrow V OUT

A	Y
0	1
1	0

0: LOW LEVEL
1: HIGH LEVEL

SN7414N ---- 0.9 - 1.7 V
SN74LS14N ---- 0.8 - 1.6 V

SN7420N (TI)
SN74S20N (TI)
SN74LS20N (TI)
TTL 4-INPUT POSITIVE-NAND GATE
— TOP VIEW —

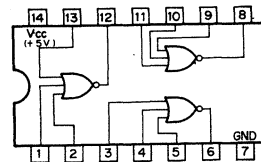


$A \cdot B \cdot C \cdot D \rightarrow Y = \overline{A \cdot B \cdot C \cdot D}$
 $Y = \overline{A \cdot B \cdot C \cdot D} = \overline{A} + \overline{B} + \overline{C} + \overline{D}$

A	B	C	D	Y
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	0

0: LOW LEVEL
1: HIGH LEVEL

SN7427N (TI)
SN74LS27N (TI)
TTL 3-INPUT POSITIVE-NOR GATE
— TOP VIEW —

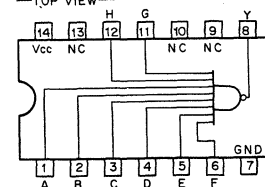


$A + B + C \rightarrow Y = \overline{A + B + C}$
 $Y = \overline{A + B + C} = \overline{A} \cdot \overline{B} \cdot \overline{C}$

A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

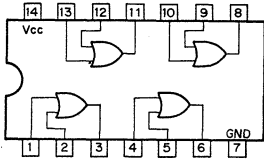
0: LOW LEVEL
1: HIGH LEVEL

SN7430N (TI)
SN74S30N (TI)
SN74LS30N (TI)
HD74LS30P (HITACHI)
TTL 8-INPUT NAND GATE
— TOP VIEW —



$A \cdot B \cdot C \cdot D \cdot E \cdot F \cdot G \cdot H$
 $Y = \overline{A \cdot B \cdot C \cdot D \cdot E \cdot F \cdot G \cdot H}$

SN 7432N (TI)
 SN 74S32N (TI)
 SN 74LS32N (TI)
 HD 74LS32P (HITACHI)
 MB74LS32 (FUJITSU)
 M74LS32P (MITSUBISHI)
 TTL 2-INPUT POSITIVE-OR GATE
 - TOP VIEW -

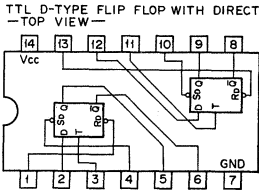


$$Y = A + B = \overline{A \cdot B}$$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0: LOW LEVEL
 1: HIGH LEVEL

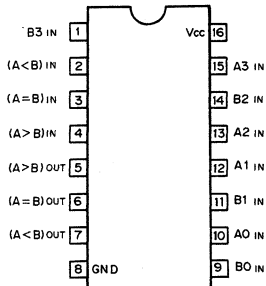
SN7474N (TI)
 M53274P (MITSUBISHI)
 SN74H74N (TI)
 SN74L74N (TI)
 SN74S74N (TI)
 SN74LS74AN (TI)
 HD74LS74P (HITACHI)
 TTL D-TYPE FLIP FLOP WITH DIRECT SET/RESET
 - TOP VIEW -



INPUTS		OUTPUTS	
SD/Rd	T	Qn	Qn+1
0	1	X	1
1	0	X	0
0	0	X	1*
1	1	1	0
1	1	0	1
1	1	0	Qn

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE
 *: NONSTABLE

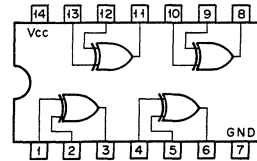
SN7485N (TI)
 SN74S85N (TI)
 SN74LS85N (TI)
 TTL 4-BIT MAGNITUDE COMPARATOR
 - TOP VIEW -



10		12		13		15	
A0		A1		A2		A3	
4	A > B IN				A > B OUT		5
3	A = B IN				A = B OUT		6
2	A < B IN				A < B OUT		7
B0		B1		B2		B3	
9		11		14		1	

0: LOW LEVEL 1: HIGH LEVEL X: DON'T CARE

SN7486N (TI)
 SN74S86N (TI)
 SN74LS86N (TI)
 HD74LS86P (HITACHI)
 TTL EXCLUSIVE OR GATE
 - TOP VIEW -

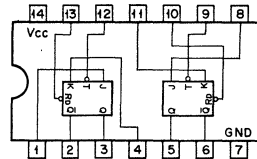


$$Y = A \oplus B = A \cdot \overline{B} + \overline{A} \cdot B$$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0: LOW LEVEL
 1: HIGH LEVEL

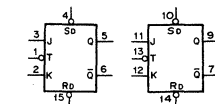
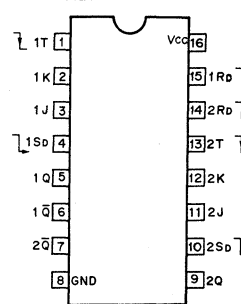
SN74LS107AN (TI)
 HD74LS107P (HITACHI)
 TTL J-K FLIP FLOP WITH DIRECT RESET
 - TOP VIEW -



INPUTS				OUT
Rd	T	J	K	Qn+1
0	X	X	X	0
1	0	0	0	Qn
1	0	1	0	0
1	1	1	0	1
1	1	1	1	$\overline{Q_n}$
1	1	X	X	Qn

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

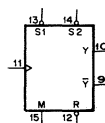
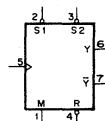
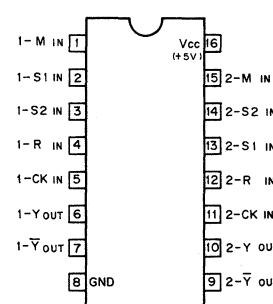
SN74S112N (TI)
 SN74LS112AN (TI)
 TTL J-K FLIP-FLOP WITH DIRECT SET/RESET
 - TOP VIEW -



INPUTS					OUTPUTS	
SD	Rd	T	J	K	Qn+1	Qn
0	1	X	X	X	1	0
1	0	X	X	X	0	1
0	0	X	X	X	1*	1*
1	1	0	0	0	Qn	Qn
1	1	0	1	0	1	0
1	1	1	0	1	0	1
1	1	1	X	X	Qn	Qn

0: LOW LEVEL X: DON'T CARE
 1: HIGH LEVEL *: NONSTABLE

SN74120N (TI)
 TTL PULSE SYNCHRONIZER/DRIVER
 - TOP VIEW -



INPUT M	OUTPUT MODE
0	TRAIN OF PULSES
1	SINGLE PULSE

S1, S2: START COMMAND INPUTS
 R: STOP COMMAND INPUT
 M: MODE CONTROL INPUT
 Y, Y-bar: SYNCHRONIZED PULSE OUTPUT

INPUTS		FUNCTION
R	S1 S2	
X	0 X	PASS OUTPUT PULSES
X	X 0	PASS OUTPUT PULSES
0	1 1	INHIBIT OUTPUT PULSES
1	1 1	START OUTPUT PULSES
1	1 1	START OUTPUT PULSES
1	1 1	STOP OUTPUT PULSES
1	1 1	CONTINUE

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

SN74123N (TI)

SN74L123N (TI)

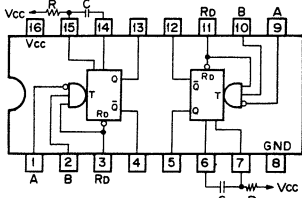
SN74LS123N (TI)

SN74LS123NS(TI)

HD74LS123P (HITACHI)

TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET

—TOP VIEW—



INPUTS			OUTPUTS	
RD	A	B	Q	Q
0	X	X	0	1
X	1	X	0	1
X	X	1	0	1
1	0	1	1	1
1	1	1	1	1
1	0	1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH

$$T_w = 0.28 \left(1 + \frac{700}{R} \right) CR$$

$$T_w = 0.33 \left(1 + \frac{700}{R} \right) CR$$

$$T_w = 0.25 \left(1 + \frac{700}{R} \right) CR$$

$$T_w = 0.29 \left(1 + \frac{700}{R} \right) CR$$

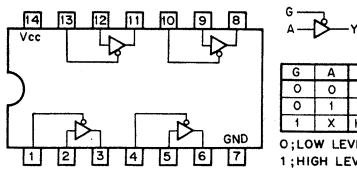
$$T_w = 0.45CR$$

SN74125N

SN74LS125AN

TTL BUS BUFFER GATES WITH 3-STATE OUTPUT

—TOP VIEW—



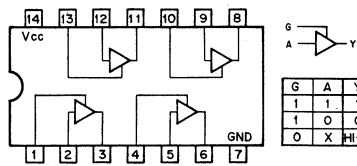
G	A	Y
0	0	0
0	1	1
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

SN74LS126AN (TI)

TTL BUS BUFFER GATE WITH 3-STATE OUTPUT

—TOP VIEW—



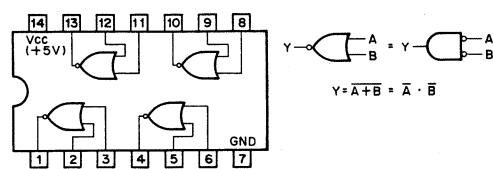
G	A	Y
0	0	0
0	1	1
1	0	0
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

SN74128N (TI)

TTL 50-Ω LINE DRIVER

—TOP VIEW—



$$Y = A + B = \overline{A} \cdot \overline{B}$$

SN74S138N (TI)

SN74LS138N (TI)

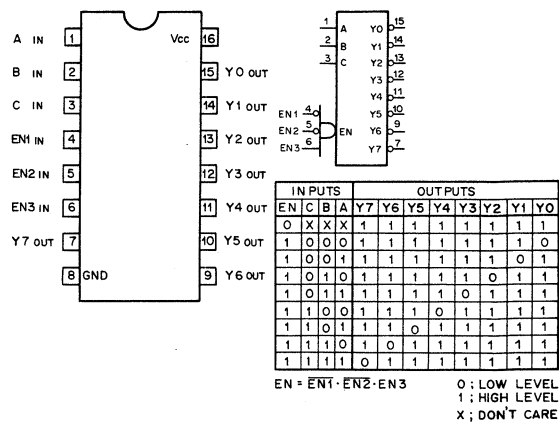
HD74LS138P (HITACHI)

MB74LS138 (FUJITSU)

M74LS138P (MITSUBISHI)

TTL 3-TO-8-LINE DECODER/DEMULPLEXER

—TOP VIEW—



IN PUTS				OUT PUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

EN = EN1 · EN2 · EN3

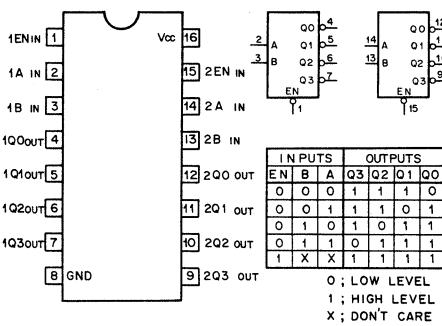
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74S139N (TI)

SN74LS139N (TI)

TTL 2-TO-4-LINE DECODER/DEMULPLEXER

—TOP VIEW—



INPUTS			OUTPUTS			
EN	B	A	Q3	Q2	Q1	Q0
0	0	0	1	1	1	0
0	0	1	1	1	0	1
0	1	0	1	0	1	1
0	1	1	0	1	1	1
1	X	X	1	1	1	1

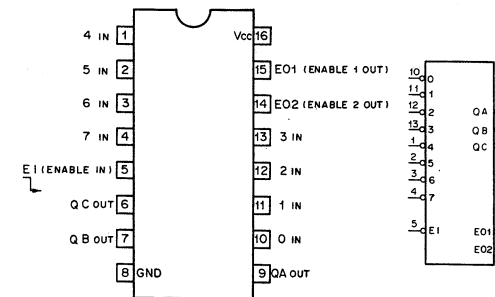
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74148N (TI)

SN74LS148N (TI)

TTL 8-TO-3-LINE PRIORITY ENCODER

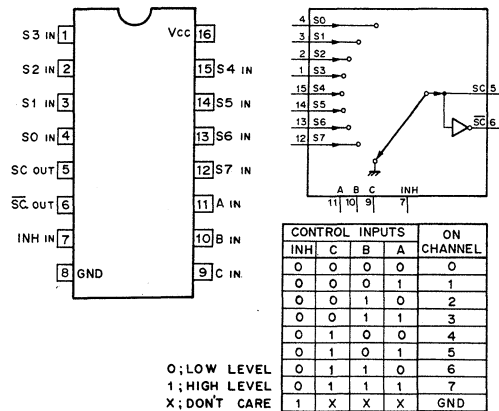
—TOP VIEW—



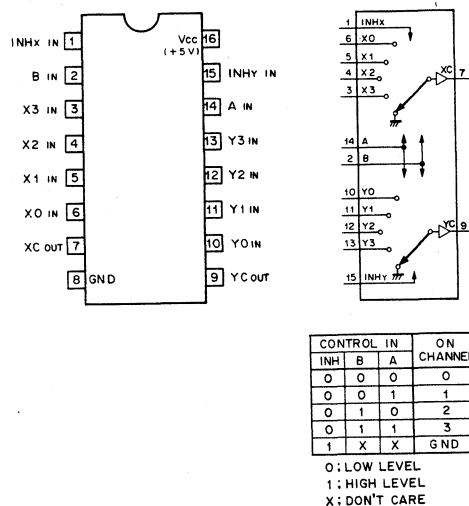
INPUTS								OUTPUTS					
E1	7	6	5	4	3	2	1	0	QC	QB	QA	E01	E02
1	X	X	X	X	X	X	X	X	1	1	1	1	1
0	1	1	1	1	1	1	1	1	1	1	1	0	1
0	1	1	1	1	1	1	1	0	1	1	1	1	0
0	1	1	1	1	1	1	0	X	1	1	0	1	0
0	1	1	1	1	1	0	X	X	1	0	1	1	0
0	1	1	1	1	0	X	X	X	1	0	0	1	0
0	1	1	1	0	X	X	X	X	0	1	1	1	0
0	1	1	0	X	X	X	X	X	0	1	0	1	0
0	1	0	X	X	X	X	X	X	0	0	1	1	0
0	0	X	X	X	X	X	X	X	0	0	0	1	0

0; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

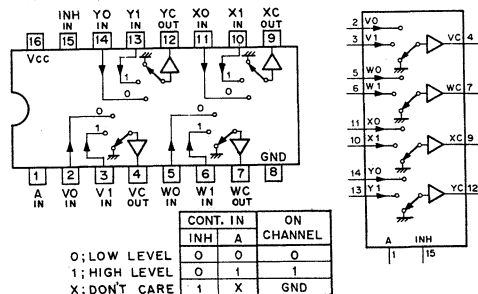
SN74151AN (TI)
 SN74LS151N (TI)
 SN74LS151N (TI)
 TTL 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
 — TOP VIEW —



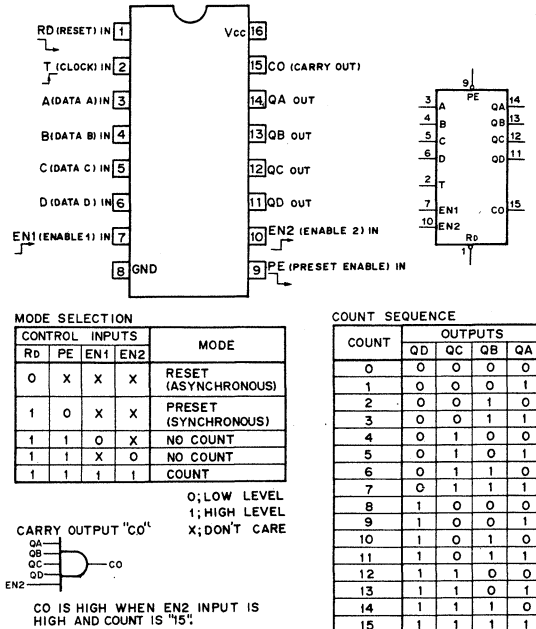
SN74153N (TI)
 SN74LS153N (TI)
 SN74LS153N (TI)
 SN74S153N (TI)
 HD74LS153P (HITACHI)
 M74LS153P (MITSUBISHI)
 MB74LS153 (FUJITSU)
 TTL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
 — TOP VIEW —



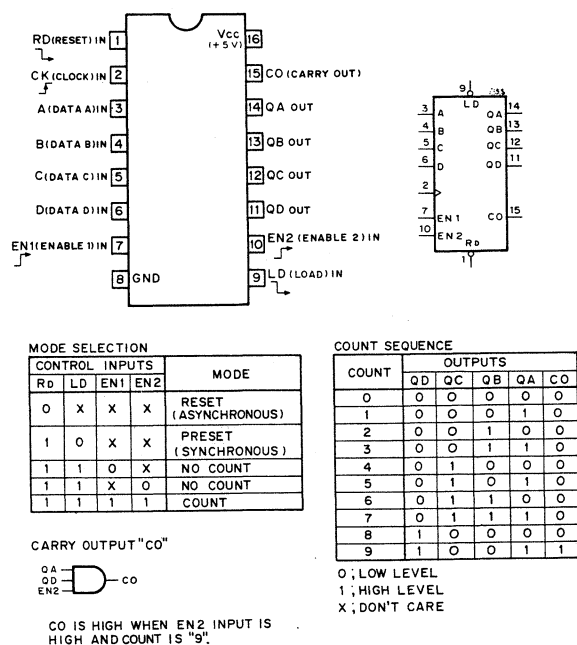
SN74157N (TI)
 SN74LS157N (TI)
 SN74S157N (TI)
 SN74LS157N (TI)
 HD74LS157P (HITACHI)
 MB74LS157 (FUJITSU)
 M74LS157P (MITSUBISHI)
 TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
 — TOP VIEW —



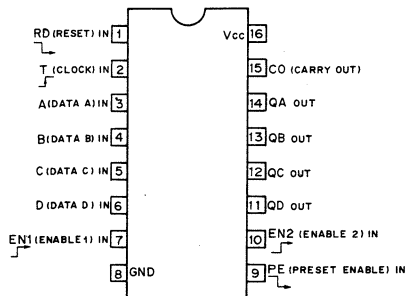
SN74161N (TI)
 SN74LS161AN (TI)
 HD74LS161P (HITACHI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
 — TOP VIEW —



SN74162N (TI)
 SN74LS162AN (TI)
 SN74S162N (TI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT DECADE COUNTER
 — TOP VIEW —



SN74163N (TI)
 SN74S163N (TI)
 SN74LS163AN (TI)
 HD74LS163P (HITACHI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
 — TOP VIEW —

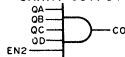


MODE SELECTION

CONTROL INPUTS				MODE
Rd	PE	EN1	EN2	
0	X	X	X	RESET (SYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

CARRY OUTPUT "CO"

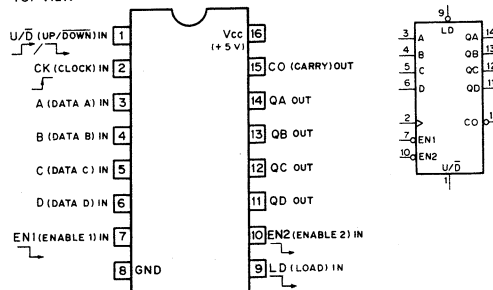


CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

SN74S169N (TI)
 TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
 — TOP VIEW —



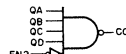
MODE SELECTION

INPUTS				MODE
LD	EN1	EN2	U/D	
0	X	X	X	PRESET
X	1	X	X	NO COUNT
X	X	1	X	NO COUNT
1	0	0	1	UP COUNT
1	0	0	0	DOWN COUNT

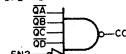
0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

CARRY OUTPUTS "CO"

AT U/D = 1



AT U/D = 0

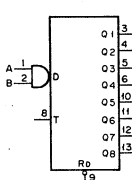
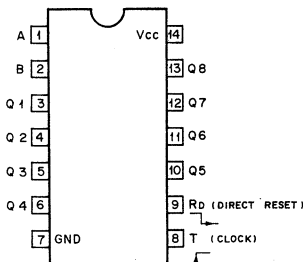





COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

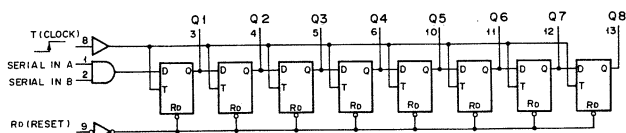
UP COUNT
 DOWN COUNT

SN74164N (TI)
 SN74L164N (TI)
 SN74LS164N (TI)
 HD74LS164P (HITACHI)
 TTL 8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER
 — TOP VIEW —

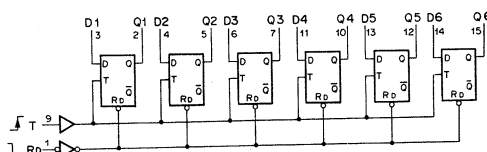
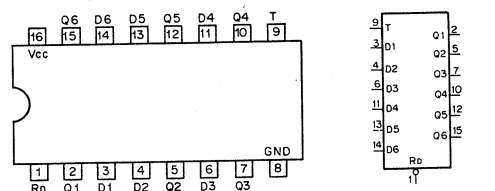


INPUTS				OUTPUTS			
Rd	T	A	B	Q1	Q2	---	Q8
0	X	X	X	0	0	0	0
1	0	X	X	Q1o	Q2o	---	Q8o
1		1	1	1	Q1n	---	Q7n
1		0	X	0	Q1n	---	Q7n
1		X	0	0	Q1n	---	Q7n



0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE



SN74174N (TI)
 SN74S174N (TI)
 SN74LS174N (TI)
 HD74LS174P (HITACHI)
 MB74LS174 (FUJITSU)
 M74LS174P (MITSUBISHI)
 TTL D-TYPE FLIP-FLOP WITH DIRECT RESET
 — TOP VIEW —



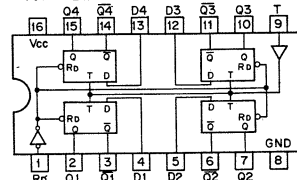
EACH FLIP-FLOP

INPUTS			OUT
Rd	T	D	Q
0	X	X	0
1		0	0
1		1	1
1	0	X	Q0

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

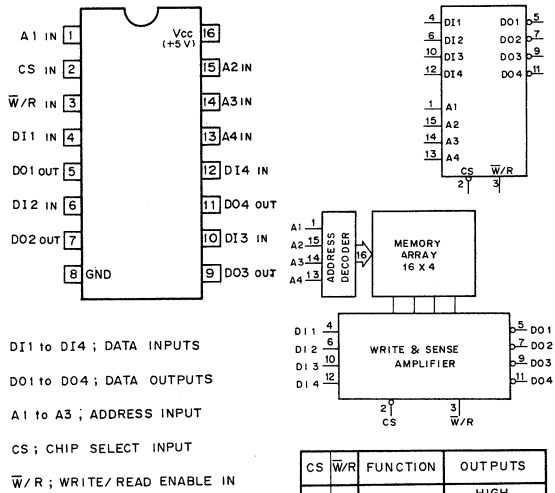
SN74175N (TI)
 SN74S175N (TI)
 SN74LS175N (TI)
 HD74LS175P (HITACHI)
 TTL D-TYPE FLIP-FLOP WITH CLEAR
 — TOP VIEW —



R ₀	T	D	Q	\bar{Q}
0	X	X	0	1
1	1	1	1	0
1	1	0	0	1
1	0	X	Q ₀	\bar{Q}_0

0: LOW LEVEL
 1: HIGH LEVEL
 X: DON'T CARE

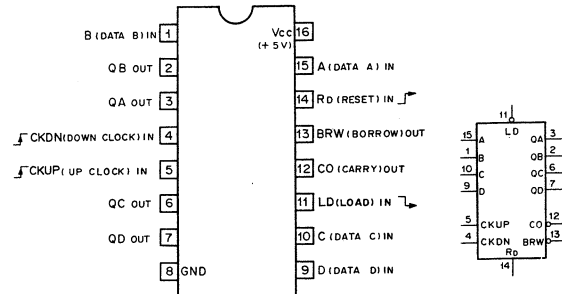
SN74S189AN (TI)
SN74S189N (TI)
TTL 64-BIT RAM WITH 3-STATE OUTPUT
— TOP VIEW —



CS	W/R	FUNCTION	OUTPUTS
0	0	WRITE	HIGH IMPEDANCE
0	1	READ	COMPLEMENT OF DATA ENTERED
1	X	INHIBIT	HIGH IMPEDANCE

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

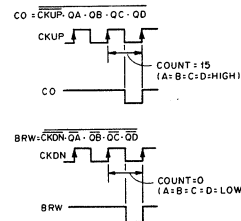
SN74193N (TI)
SN74LS193N (TI)
SN74LS193N (TI)
MB74LS193 (FUJITSU)
TTL PRESETTABLE SYNCHRONOUS 4-BIT UP/DOWN COUNTER
— TOP VIEW —



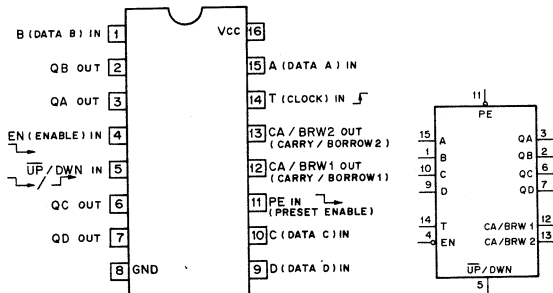
CONTROL INPUTS				MODE
Rd	LD	CKUP	CKDN	
1	X	X	X	RESET TO ZERO
0	0	X	X	PRESET
0	1	1	1	UP COUNT
0	1	1	1	DOWN COUNT
0	1	1	1	NO COUNT

COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

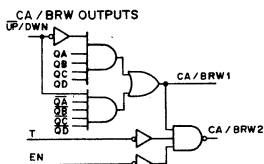


SN74191N (TI)
SN74LS191N (TI)
TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
— TOP VIEW —



CONTROL INPUTS			MODE
PE	EN	UP/DWN	
0	X	X	PRESET (ASYNCHRONOUS)
1	1	X	NO COUNT
1	0	0	UP COUNT
1	0	1	DOWN COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

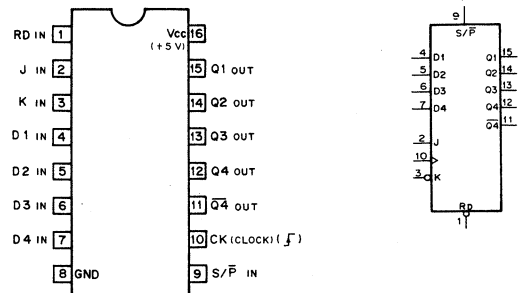


CA/BRW1 OUTPUT IS HIGH WHEN COUNT IS "15" AT UP-COUNT OR WHEN COUNT IS "0" AT DOWN COUNT.

CA/BRW2 OUTPUT IS LOW WHEN BOTH THE CLOCK AND EN INPUTS ARE LOW AND CA/BRW1 OUTPUT IS HIGH.

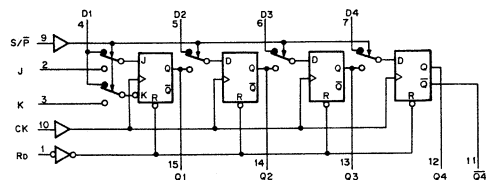
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

SN74LS195AN (TI)
SN74S195N (TI)
TTL 4-BIT PARALLEL-ACCESS SHIFT REGISTER
— TOP VIEW —

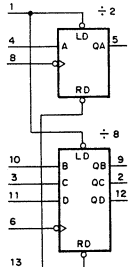
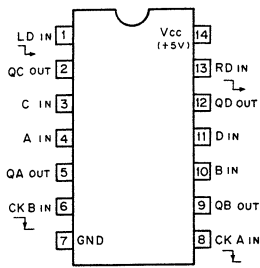


INPUTS									OUTPUTS				
RD	S/F	CK	J	K	D1	D2	D3	D4	Q1	Q2	Q3	Q4	Q4
0	X	X	X	X	X	X	X	X	0	0	0	0	1
1	0	↑	X	X	d1	d2	d3	d4	d1	d2	d3	d4	d4
1	1	0	X	X	X	X	X	X	Q10	Q20	Q30	Q40	Q40
1	1	↑	0	1	X	X	X	X	Q10	Q10	Q2n	Q3n	Q3n
1	1	↑	0	0	X	X	X	X	0	Q1n	Q2n	Q3n	Q3n
1	1	↑	1	1	X	X	X	X	1	Q1n	Q2n	Q3n	Q3n
1	1	↑	1	0	X	X	X	X	Q10	Q1n	Q2n	Q3n	Q3n

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE



SN74LS197N (TI)

TTL PRESETTABLE DIVIDE-BY-2 AND DIVIDE-BY-8 (4-BIT BINARY) COUNTER
— TOP VIEW —

COUNT SEQUENCE

÷2 SECTION

COUNT	RD	LD	QA
0	1	1	0
1	1	1	1
X	1	0	SET TO A
0	0	X	0

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

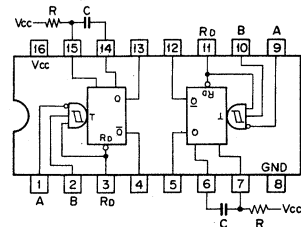
÷8 SECTION

COUNT	RD	LD	QD	QC	QB
0	1	1	0	0	0
1	1	1	0	0	1
2	1	1	0	1	0
3	1	1	0	1	1
4	1	1	1	0	0
5	1	1	1	0	1
6	1	1	1	1	0
7	1	1	1	1	1
X	1	0	D	C	B
0	0	X	0	0	0

SN74221N (TI)

SN74LS221N (TI)

HD74LS221P (HITACHI)

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT
— TOP VIEW —

INPUTS	RD	A	B	Q	Q'
0	X	X	0	0	1
X	1	X	0	0	1
X	X	0	0	0	1
1	0	1	1	1	1
1	1	1	1	1	1
1	0	1	1	1	1
1	0	1	1	1	1

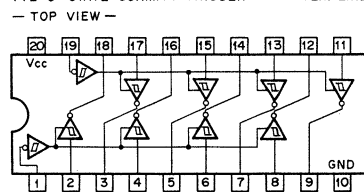
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH = 0.7CR

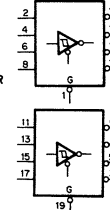
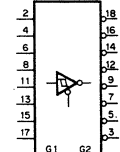
SN74S240N (TI)

SN74LS240N (TI)

HD74LS240P (HITACHI)

TTL 3-STATE SCHMITT TRIGGER INVERTER/LINE DRIVER
— TOP VIEW —

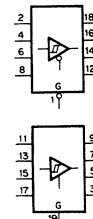
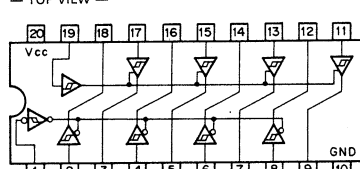
G	A	Y
0	0	1
0	1	0
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

SN74LS241N (TI)

SN74S241N (TI)

HD74LS241P (HITACHI)

TTL 3-STATE SCHMITT TRIGGER BUFFER/LINE DRIVER
— TOP VIEW —

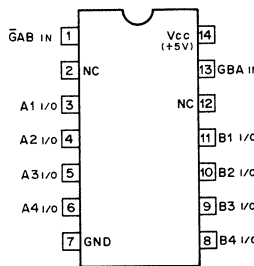
G	A	Y
0	0	0
0	1	1
1	0	HI-Z
1	1	HI-Z

HI-Z; HIGH IMPEDANCE

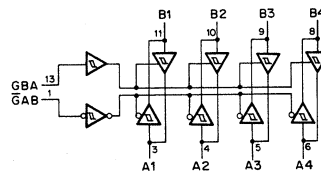
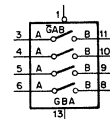
G	A	Y
0	0	HI-Z
0	1	HI-Z
1	0	0
1	1	1

HI-Z; HIGH IMPEDANCE

SN74LS243N (TI)

TTL BUS TRANSCEIVERS WITH 3-STATE OUTPUT
— TOP VIEW —

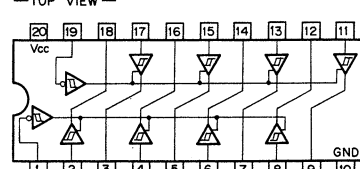
GAB	GBA	OPERATION
0	0	A to B
0	1	DON'T USE
1	0	HI-Z
1	1	B to A

0; LOW LEVEL
1; HIGH LEVEL
HI-Z; HIGH IMPEDANCE

SN74LS244N (TI)

HD74LS244P (HITACHI)

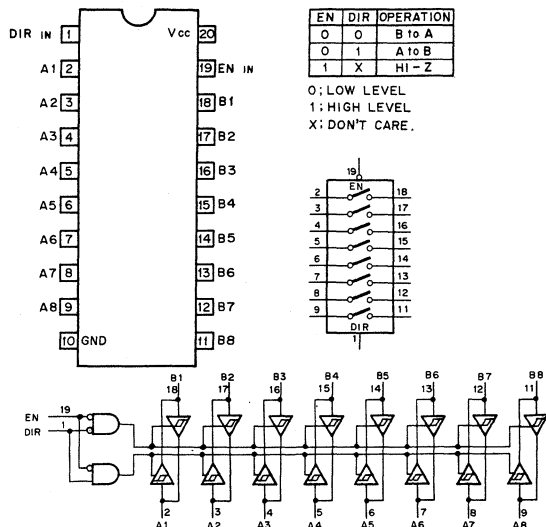
M74LS244P (MITSUBISHI)

TTL 3-STATE SCHMITT TRIGGER BUFFER/DRIVER
— TOP VIEW —

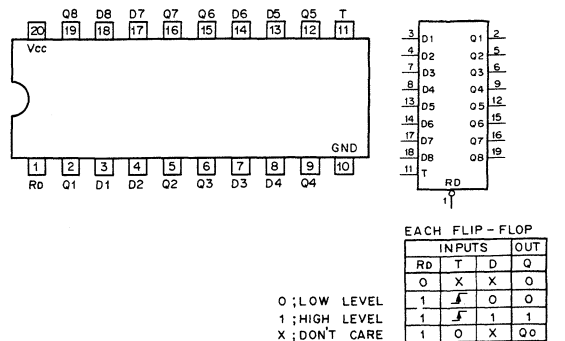
G	A	Y
0	0	0
0	1	1
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

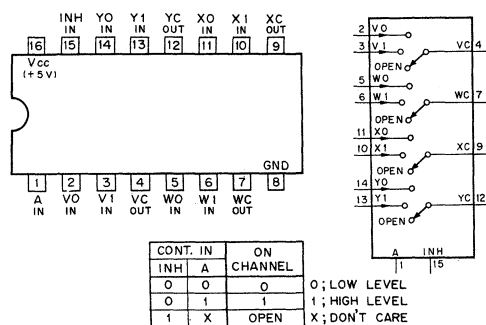
SN74LS245N (TI)
TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS WITH 3-STATE OUTPUT
— TOP VIEW —



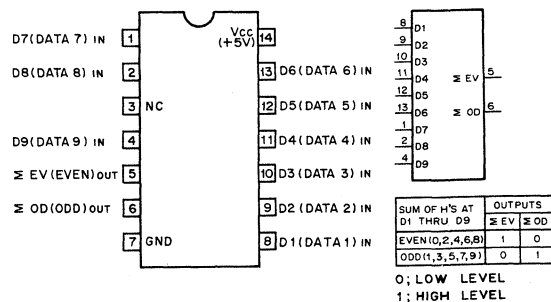
SN74273N (TI)
SN74LS273N (TI)
M74LS273P (MITSUBISHI)
TTL D-TYPE FLIP-FLOP WITH DIRECT RESET
— TOP VIEW —



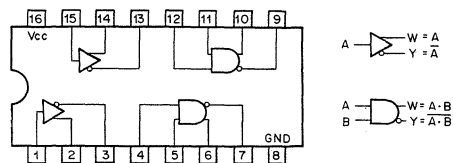
SN74LS257AN (TI)
TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



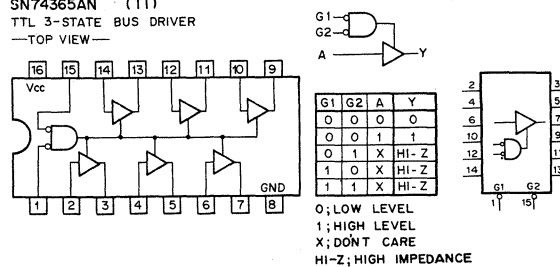
SN74LS280N (TI)
TTL 9-BIT ODD/EVEN PARITY GENERATOR/CHECKER
— TOP VIEW —



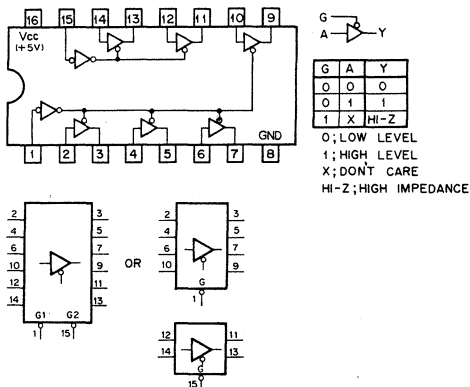
SN74265N (TI)
TTL COMPLEMENTARY-OUTPUT ELEMENT
— TOP VIEW —



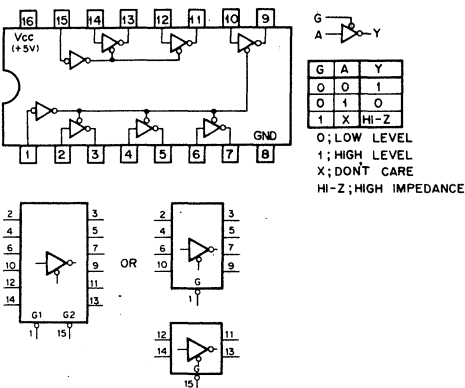
SN74LS365AN (TI)
SN74365AN (TI)
TTL 3-STATE BUS DRIVER
— TOP VIEW —



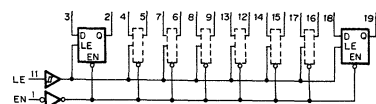
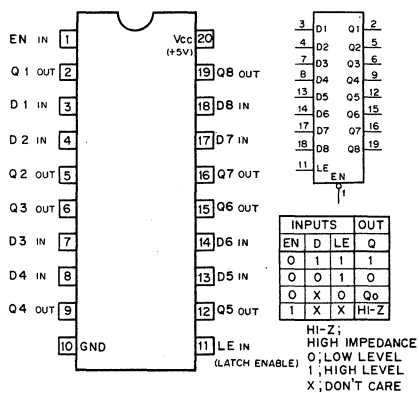
SN74367AN (TI)
SN74LS367AN (TI)
TTL BUS DRIVER WITH 3-STATE OUTPUTS
— TOP VIEW —



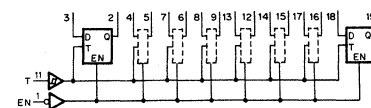
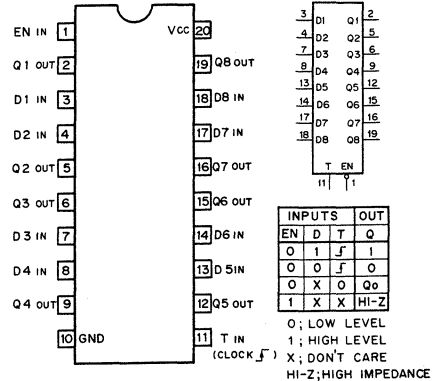
SN74368AN (TI)
SN74LS368AN (TI)
TTL BUS INVERTER WITH 3-STATE OUTPUTS
— TOP VIEW —



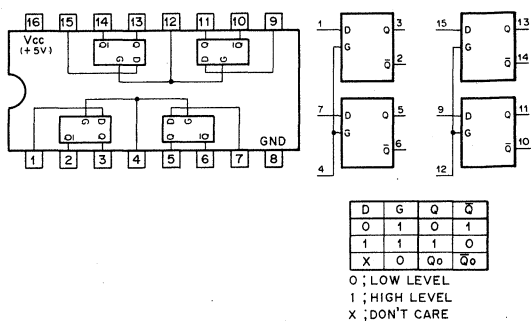
SN74LS373N (TI)
SN74S373N (TI)
TTL 3-STATE OUTPUTS OCTAL LATCHES
— TOP VIEW —



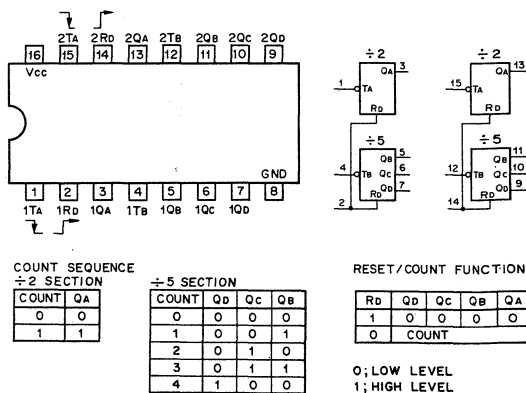
SN74LS374N (TI)
SN74S374N (TI)
TTL 3-STATE OUTPUTS OCTAL D-TYPE FLIP-FLOP
— TOP VIEW —



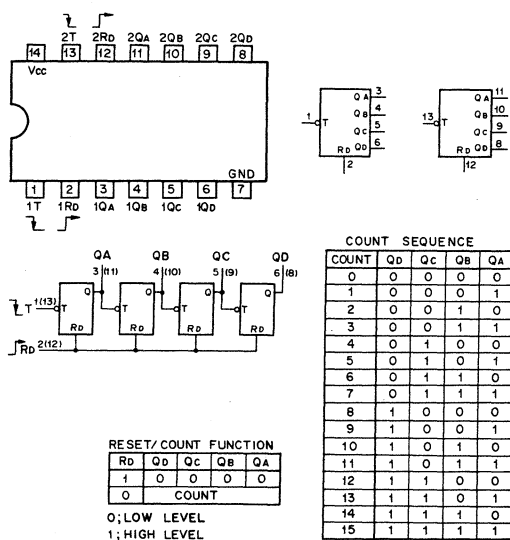
SN74LS375N (TI)
TTL BISTABLE LATCH
— TOP VIEW —



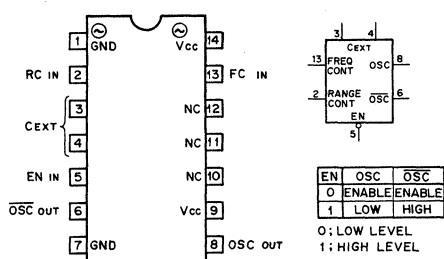
SN74390N (TI)
SN74LS390N (TI)
TTL DIVIDE-BY-2 AND DIVIDE-BY-5 COUNTER
— TOP VIEW —



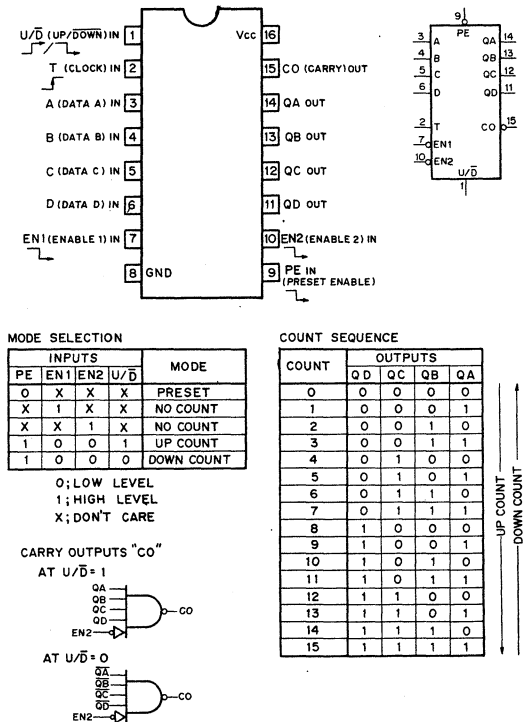
SN74393N (TI)
SN74LS393N (TI)
TTL 4-BIT BINARY COUNTER
—TOP VIEW—



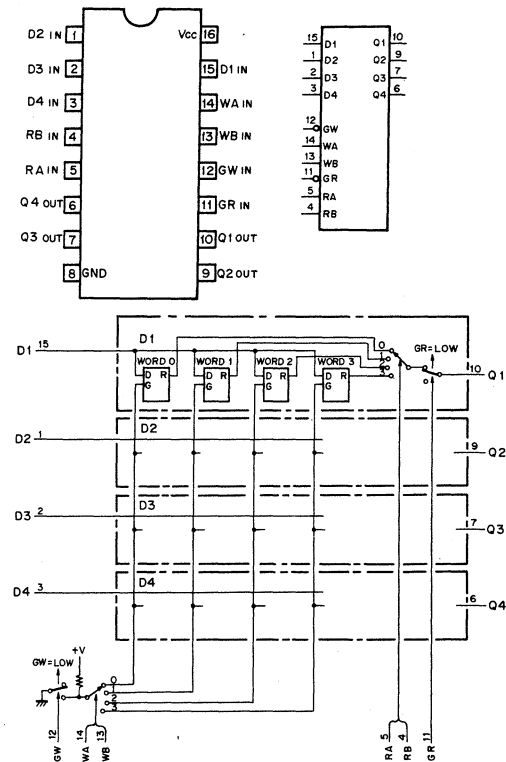
SN74LS624N (TI)
TTL VOLTAGE CONTROLLED OSCILLATOR
—TOP VIEW—



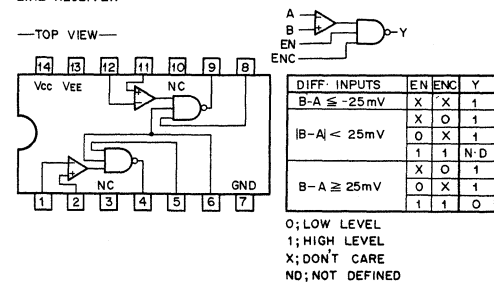
SN74LS669N (TI)
TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER
—TOP VIEW—



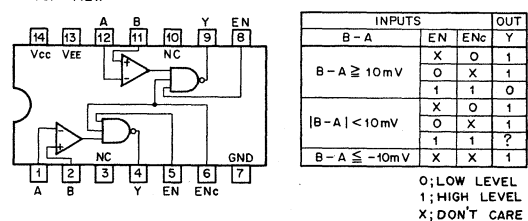
SN74LS670N (TI)
TTL 4-BY-4 REGISTER FILES WITH 3-STATE OUTPUT
—TOP VIEW—



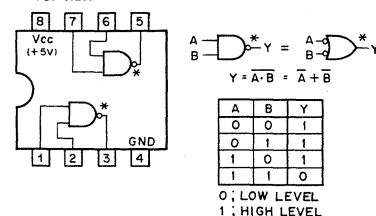
SN75107AN (TI)
SN75107BN (TI)
HD75107A (HITACHI)
HD75107AP (HITACHI)
LINE RECEIVER
—TOP VIEW—



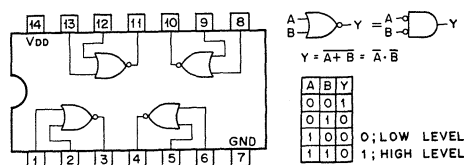
SN75207BN (TI)
BIPOLAR LINE RECEIVER (TTL COMPATIBLE)
—TOP VIEW—



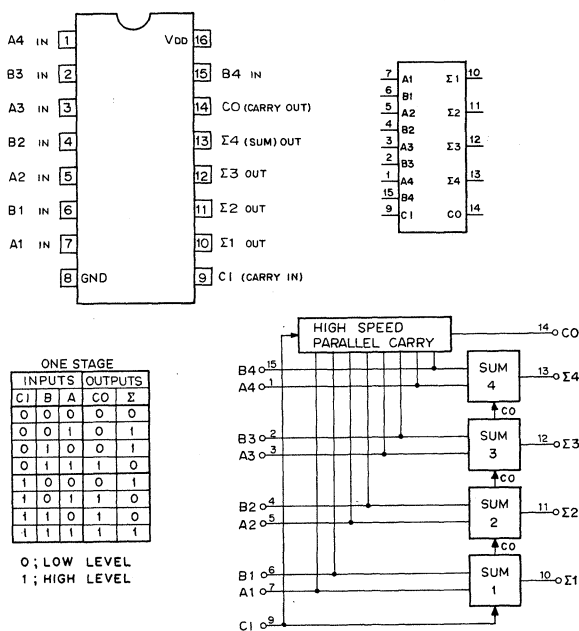
SN75452BP (TI)
HD75452P (HITACHI)
TTL PERIPHERAL POSITIVE-NAND DRIVER
WITH OPEN-COLLECTOR
—TOP VIEW—



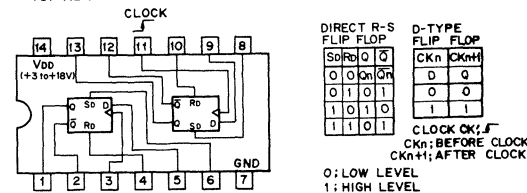
TC4001BP (TOSHIBA)
 TC4001UBP (TOSHIBA)
 μ PD4001BC (NEC)
 MB84001B (FUJITSU)
 MSM4001 (OKI)
 HD14001BP (HITACHI)
 MC14001BCP (MOTOROLA)
 MC14001UBCP (MOTOROLA)
 C-MOS 2-INPUT NOR GATE
 - TOP VIEW -



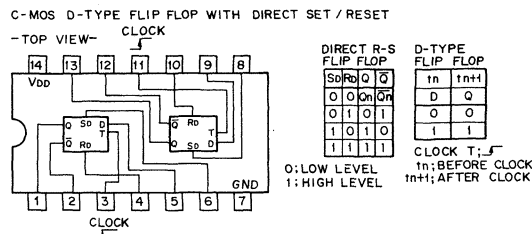
TC4008BP (TOSHIBA)
 MC14008BCP (MOTOROLA)
 C-MOS 4-BIT FULL ADDER
 - TOP VIEW -



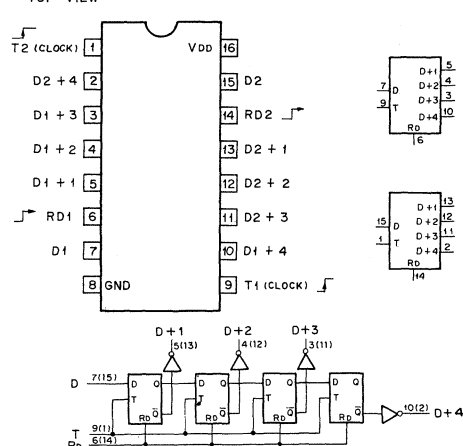
TC4013BP (TOSHIBA)
 TC504013BP (TOSHIBA)
 C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
 - TOP VIEW -



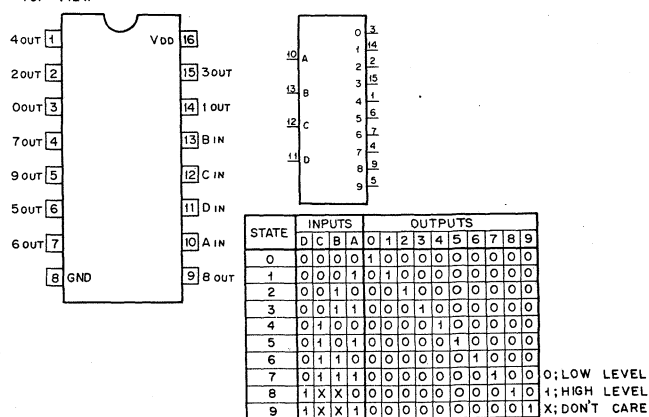
MB84013B (FUJITSU)
 MB84013M (FUJITSU)
 μ PD4013BC (NEC)
 μ PD4013C (NEC)
 HD14013BP (HITACHI)
 MC14013BCP (MOTOROLA)
 C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
 - TOP VIEW -



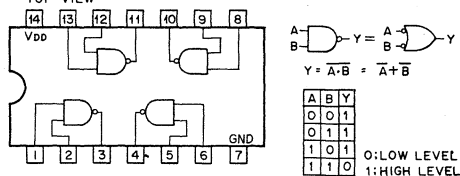
TC4015BP (TOSHIBA)
 μ PD4015C (NEC)
 μ PD4015BC (NEC)
 MC14015BCP (MOTOROLA)
 C-MOS DUAL 4-STAGE STATIC SHIFT REGISTER WITH DIRECT RESET
 - TOP VIEW -



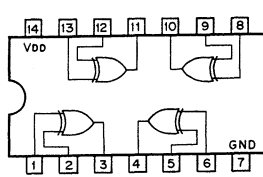
TC4028BP (TOSHIBA)
 μ PD4028C (NEC)
 C-MOS BCD TO DECIMAL DECODER
 - TOP VIEW -



TC4011BP (TOSHIBA)
 TC4011UBP (TOSHIBA)
 μ PD4011BC (NEC)
 MSM4011RS (OKI)
 MB84011B (FUJITSU)
 HD14011BP (HITACHI)
 MC14011BCP (MOTOROLA)
 MC14011UBCP (MOTOROLA)
 C-MOS 2-INPUT NAND GATE
 - TOP VIEW -



TC4030BP (TOSHIBA)
 μPD4030BC (NEC)
 μPD4030C (NEC)
 MC14507CP (MOTOROLA)
 C-MOS EXCLUSIVE OR GATE
 — TOP VIEW —

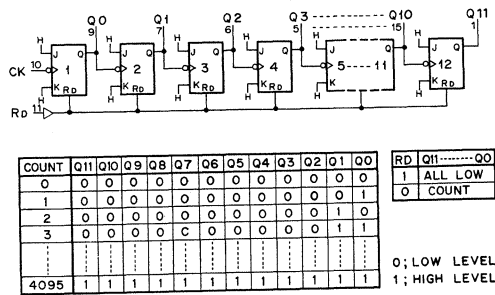
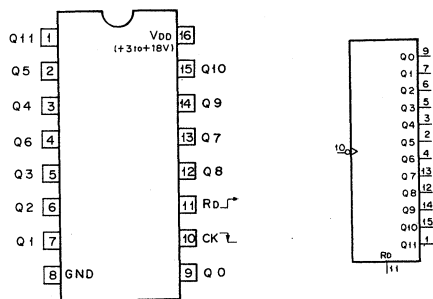


$A \oplus B = Y$
 $Y = A \cdot \bar{B} + \bar{A} \cdot B$

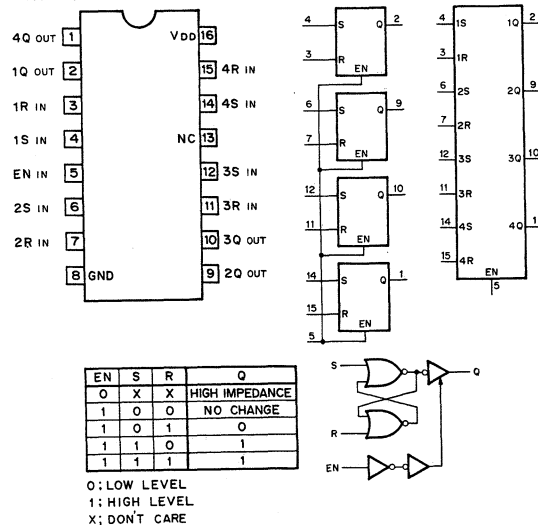
A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0: LOW LEVEL
1: HIGH LEVEL

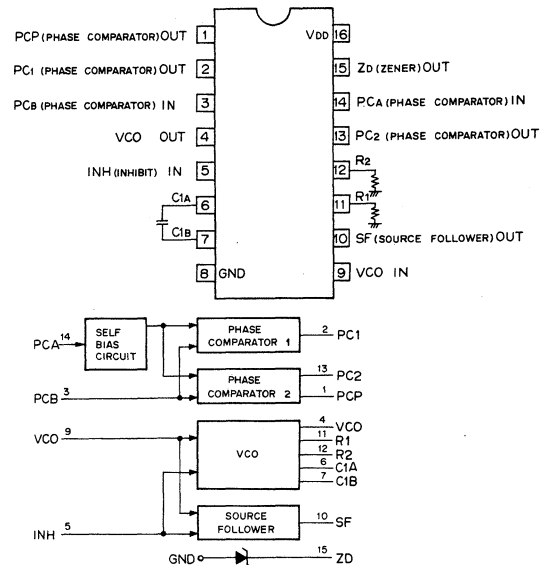
TC4040BP (TOSHIBA)
 HD14040BP (HITACHI)
 MB84040B (FUJITSU)
 μPD4040C (NEC)
 C-MOS 12-STAGE RIPPLE CARRY BINARY COUNTER/DRIVER
 — TOP VIEW —



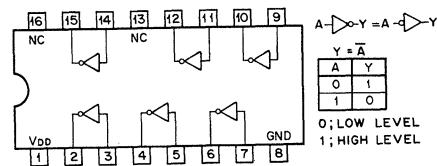
TC4043BP (TOSHIBA)
 MC14043BCP (MOTOROLA)
 C-MOS 3-STATE OUTPUT NOR R-S LATCH
 — TOP VIEW —



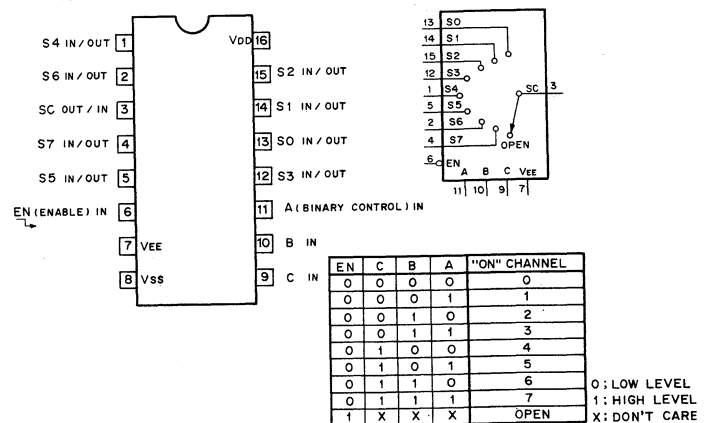
TC4046BP (TOSHIBA)
 HD14046BP (HITACHI)
 MC14046BCP (MOTOROLA)
 C-MOS PHASE LOCKED LOOP
 — TOP VIEW —



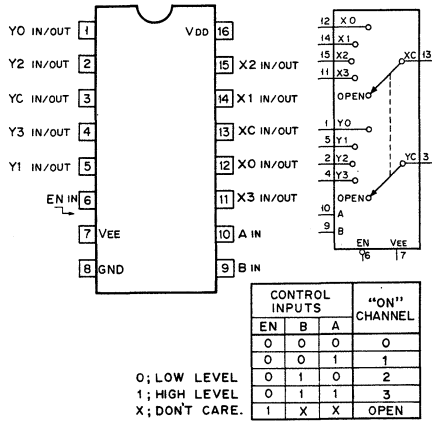
TC4049BP (TOSHIBA)
 μPD4049C (NEC)
 MB84049B (FUJITSU)
 MB84049UB (FUJITSU)
 MC14049UBCP (MOTOROLA)
 C-MOS INVERTING TYPE BUFFER/CONVERTER
 — TOP VIEW —



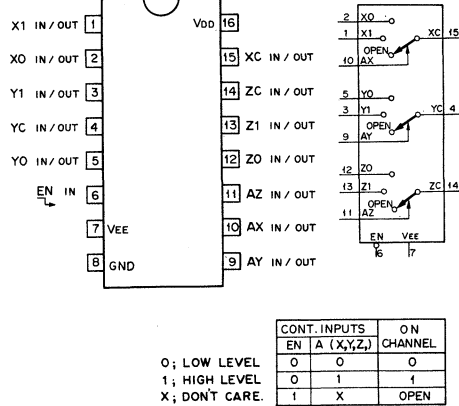
TC4051BP (TOSHIBA)
 μPD4051BC (NEC)
 HD14051BP (HITACHI)
 MC14051BCP (MOTOROLA)
 C-MOS 8-CHANNEL MULTIPLEXER/DEMULTIPLEXER
 — TOP VIEW —



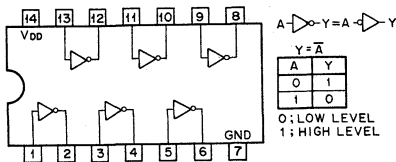
TC4052BP (TOSHIBA)
 MB84052B (FUJITSU)
 HD14052BP (HITACHI)
 MC14052BCP (MOTOROLA)
 C-MOS 4-CHANNEL MULTIPLEXER / DEMULTIPLEXER
 — TOP VIEW —



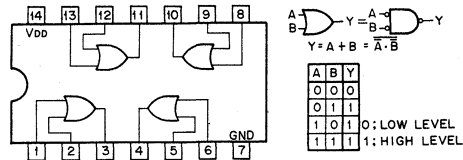
TC4053BP (TOSHIBA)
 MSM4053 (OKI)
 MB84053B (FUJITSU)
 HD14053BP (HITACHI)
 μPD4053BC (NEC)
 MC14053BCP (MOTOROLA)
 C-MOS 2-CHANNEL MULTIPLEXER / DEMULTIPLEXER
 — TOP VIEW —



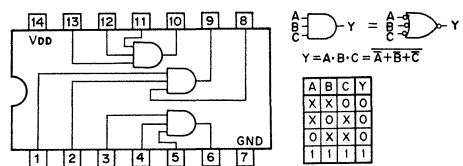
TC4069UBP (TOSHIBA)
 μPD4069C (NEC)
 μPD4069UBC (NEC)
 MB84069B (FUJITSU)
 MB84069UB (FUJITSU)
 HD14069BP (HITACHI)
 HD14069UBP (HITACHI)
 MC14069BCP (MOTOROLA)
 C-MOS INVERTER
 — TOP VIEW —



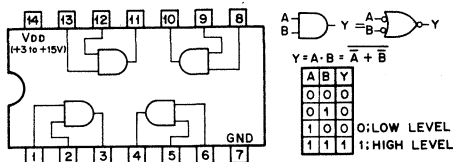
TC4071BP (TOSHIBA)
 μPD4071BC (NEC)
 MC14071BCP (MOTOROLA)
 C-MOS 2-INPUT OR GATE
 — TOP VIEW —



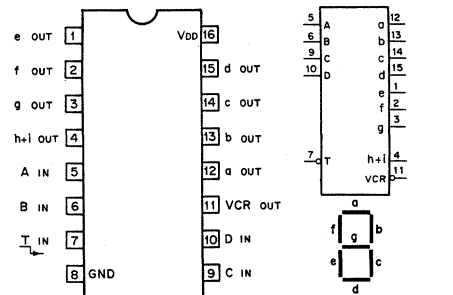
TC4073BP (TOSHIBA)
 μPD4073BC (NEC)
 MC14073BCP (MOTOROLA)
 C-MOS 3-INPUT POSITIVE AND GATE
 — TOP VIEW —



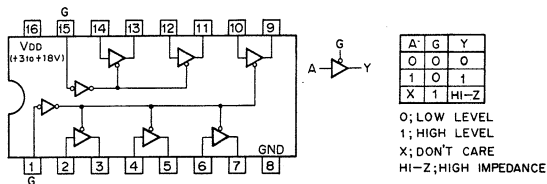
TC4081BP (TOSHIBA)
 MB84081B (FUJITSU)
 MC14081BCP (MOTOROLA)
 μPD4081BC (NEC)
 C-MOS 2-INPUT AND GATE
 — TOP VIEW —



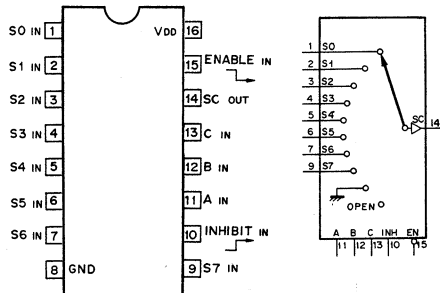
MC14495P (MOTOROLA)
 C-MOS BCD-TO-SEVEN-SEGMENT 4-BIT LATCH/DECODER DRIVER
 — TOP VIEW —



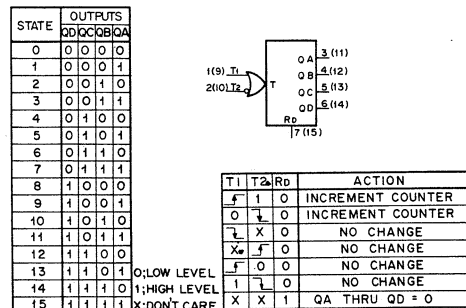
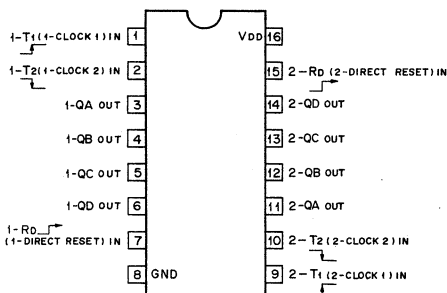
HD14503BP (HITACHI)
MC14503BCP (MOTOROLA)
C-MOS NON-INVERTING 3-STATE BUFFER
— TOP VIEW —



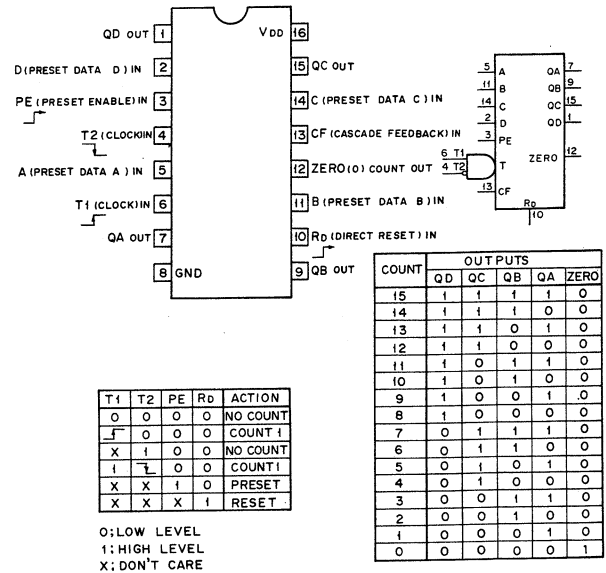
TC4512BP (TOSHIBA)
MC14512BCP (MOTOROLA)
C-MOS 8-CHANNEL DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



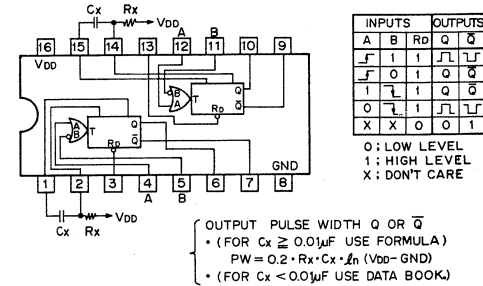
TC4520BP (TOSHIBA)
MB84520B (FUJITSU)
MC14520BCP (MOTOROLA)
C-MOS DUAL 4-BIT BINARY UP COUNTER
— TOP VIEW —



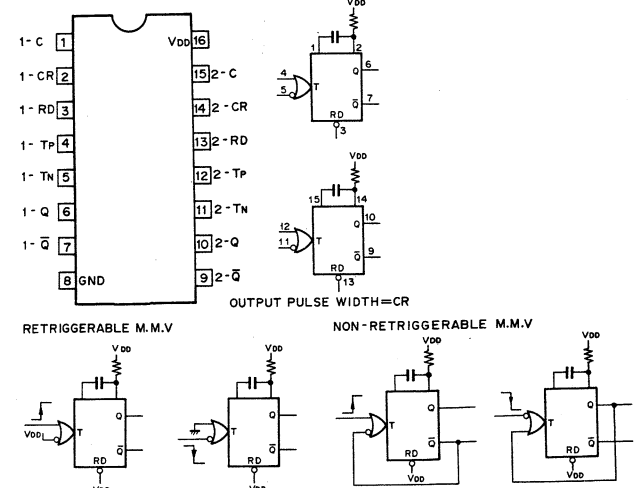
MC14526BCP (MOTOROLA)
C-MOS PROGRAMMABLE DIVIDE-BY-N 4-BIT BINARY DOWN COUNTER
— TOP VIEW —



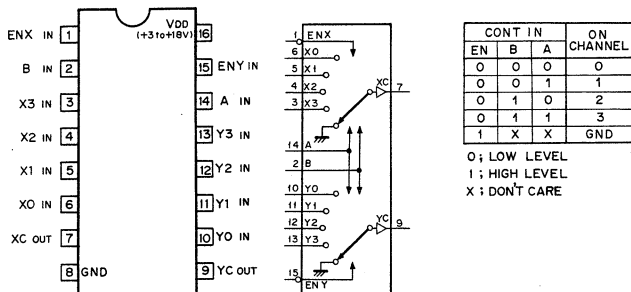
TC4528BP (TOSHIBA)
μPD4528C (NEC)
MC14528BCP (MOTOROLA)
C-MOS RETRIGGERABLE/RESETTABLE MMV
— TOP VIEW —



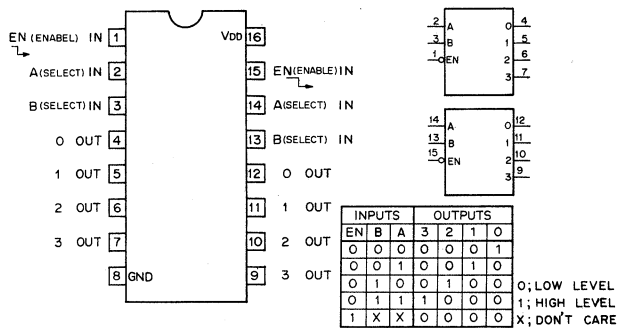
HD14538BP (HITACHI)
MC14538BCP (MOTOROLA)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



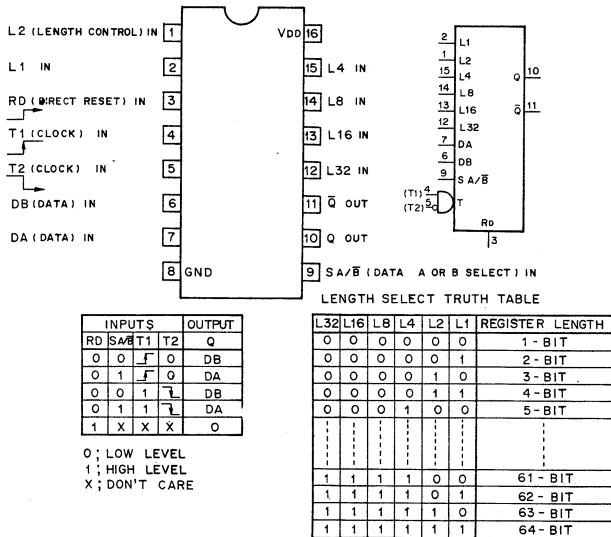
MC14539BCP (MOTOROLA)
TC4539BP (TOSHIBA)
μPD4539BC (NEC)
C-MOS DUAL 4-CHANNEL DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



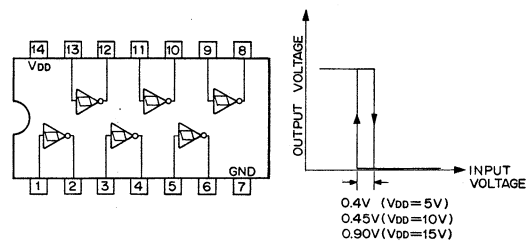
TC4555BP (TOSHIBA)
MC14555BCP (MOTOROLA)
C-MOS BINARY TO 1-OF-4 DECODER / DEMULTIPLEXER
— TOP VIEW —



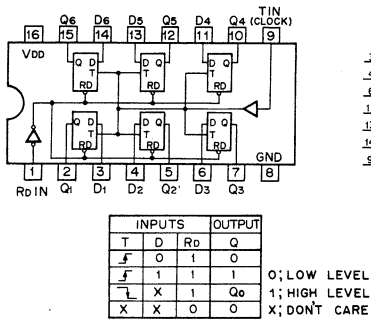
MC14557BCP (MOTOROLA)
C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER
— TOP VIEW —



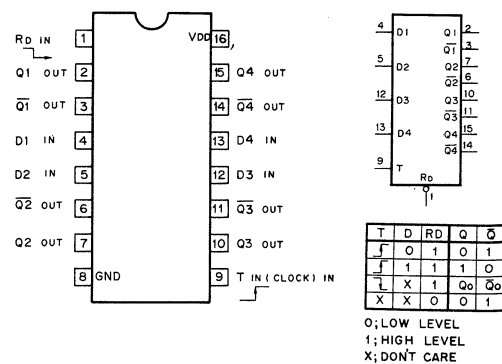
μPD4584BC (NEC)
MC14584BCP (MOTOROLA)
C-MOS SCHMITT TRIGGER INVERTER
— TOP VIEW —



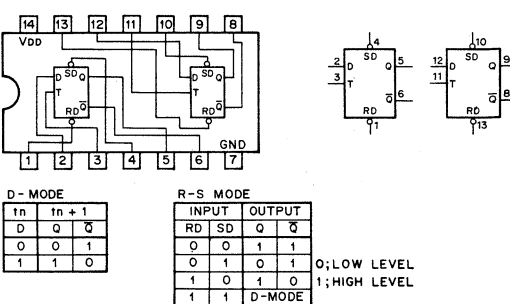
TC40174BP (TOSHIBA)
MC14174BCP (MOTOROLA)
C-MOS D-TYPE FLIP-FLOP
— TOP VIEW —



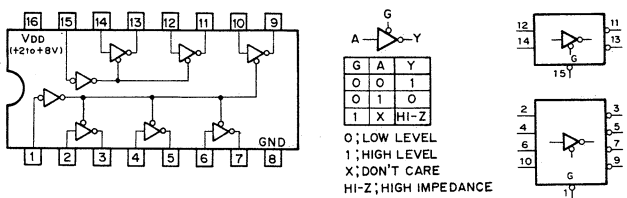
TC40175BP (TOSHIBA)
MC14175BCP (MOTOROLA)
C-MOS D-TYPE FLIP-FLOP
— TOP VIEW —



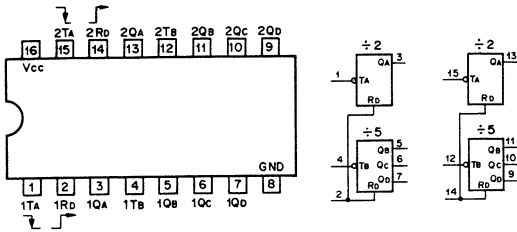
TC40H074P (TOSHIBA)
C-MOS HIGH SPEED D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



TC40H368P (TOSHIBA)
C-MOS INVERTING 3-STATE BUFFER
— TOP VIEW —



IC40H390P (TOSHIBA)
C-MOS DIVIDE-BY-2 AND DIVIDE-BY-5 COUNTER
— TOP VIEW —



COUNT SEQUENCE

COUNT	Qa
0	0
1	1

÷5 SECTION

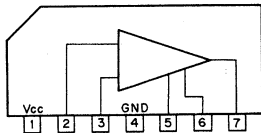
COUNT	Qd	Qc	Qb
0	0	0	0
1	0	0	1
2	0	1	0
3	0	1	1
4	1	0	0

RESET/COUNT FUNCTION

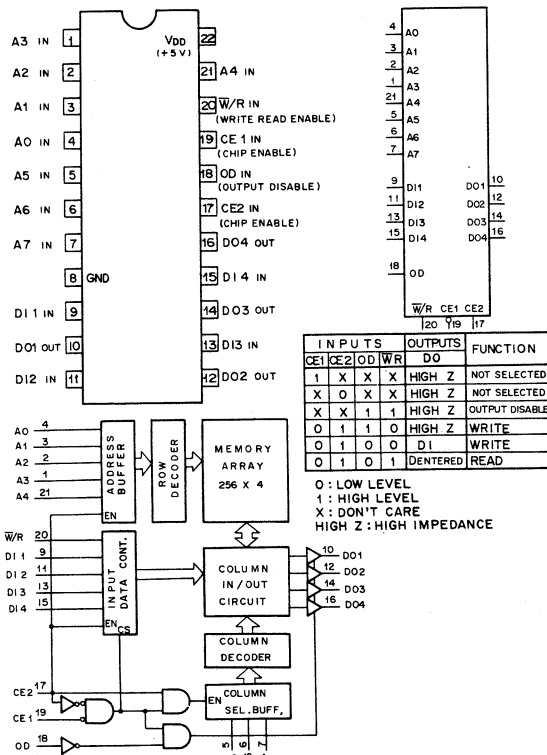
Rd	Qd	Qc	Qb	Qa
1	0	0	0	0
0	COUNT			

0: LOW LEVEL
1: HIGH LEVEL

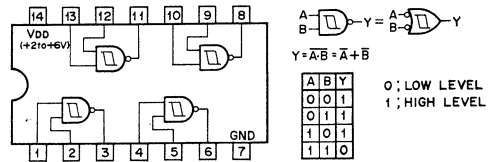
TA7069P (TOSHIBA)
VIDEO AMPLIFIER
— SIDE VIEW —



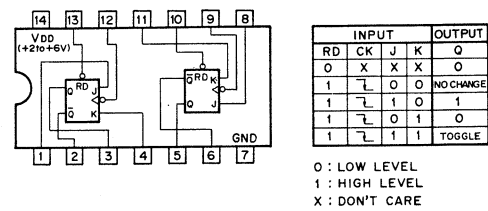
TC5501P (TOSHIBA) (ACCESS TIME = 450 nS)
TC5501P-1 (TOSHIBA) (ACCESS TIME = 650 nS)
uPD5101LC-1 (NEC) (ACCESS TIME = 450 nS)
5101L-1 (INTEL) (ACCESS TIME = 450 nS)
C-MOS 1024-BIT(256x4) STATIC RAM
— TOP VIEW —



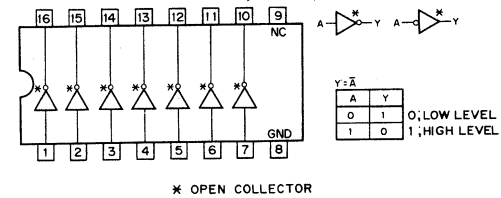
TC74HC107P (TOSHIBA)
HD74HC107P (HITACHI)
MC74HC107N (MOTOROLA)
C-MOS DUAL J-K FLIP-FLOPS
— TOP VIEW —



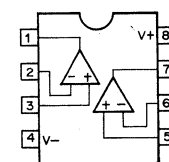
TC74HC132P (TOSHIBA)
HD74HC132P (HITACHI)
MC74HC132N (MOTOROLA)
C-MOS 2-INPUT HAND SCHMITT TRIGGER
— TOP VIEW —



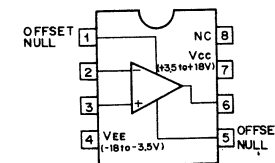
TD62105P (TOSHIBA)
TTL INVERTING DRIVER WITH OPEN COLLECTOR
— TOP VIEW —



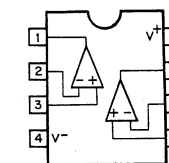
TL072CP (TI)
TL072ACP (TI)
TL072BCP (TI)
OPERATIONAL AMPLIFIER (LOW-NOISE, JFET-INPUT)
— TOP VIEW —



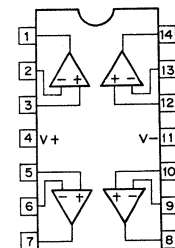
TL081CP (TI)
OPERATIONAL AMPLIFIER (JFET INPUT)
— TOP VIEW —



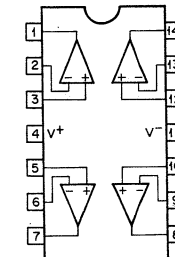
TL082CP (TI)
uPC4082C (NEC)
TL082ACP (TI)
TL082BCP (TI)
OPERATIONAL AMPLIFIER (JFET-INPUT)
— TOP VIEW —



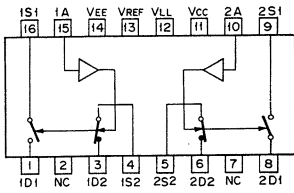
TL074CN (TI)
TL074ACN (TI)
TL074BCN (TI)
OPERATIONAL AMPLIFIER (LOW-NOISE, JFET-INPUT)
— TOP VIEW —



TL084CN (TI)
TL084ACN (TI)
TL084BCN (TI)
OPERATIONAL AMPLIFIER (JFET-INPUT)
— TOP VIEW —



TL191CN (TI)
TWIN DUAL COMPLEMENTARY
BI-MOS ANALOG SWITCH
— TOP VIEW —

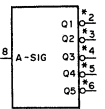
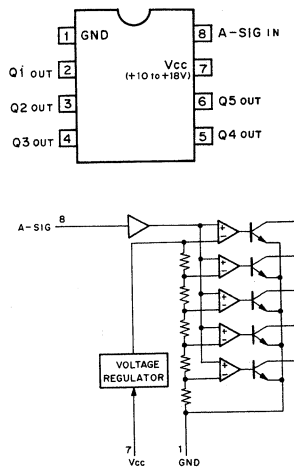


A	S1	S2
1	ON	OFF
0	OFF	ON

0; LOW LEVEL
1; HIGH LEVEL



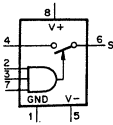
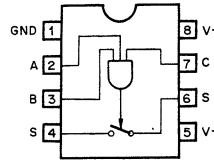
TL489CP (TI)
5-STEP ANALOG LEVEL DETECTOR WITH OPEN COLLECTOR OUTPUT
— TOP VIEW —



INPUT A-SIG (V)	Q5	Q4	Q3	Q2	Q1
$< \approx 0.2$	1	1	1	1	1
≈ 0.2 to ≈ 0.4	1	1	1	1	0
≈ 0.4 to ≈ 0.6	1	1	1	0	0
≈ 0.6 to ≈ 0.8	1	1	0	0	0
≈ 0.8 to ≈ 1.0	1	0	0	0	0
≈ 1.0 and above	0	0	0	0	0

0; LOW LEVEL
1; HIGH LEVEL

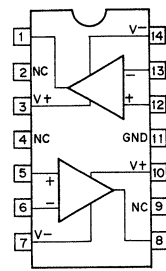
TL610CP (TI)
MOS ANALOG SWITCH
— TOP VIEW —



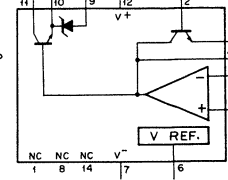
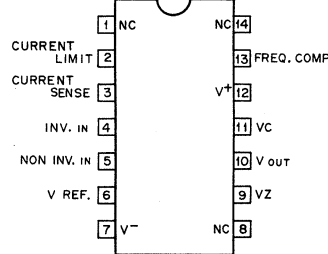
CONT	IN	S
A	B	C
0	X	X
X	0	X
X	X	0
1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

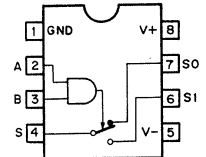
TL820CN (TI)
VOLTAGE COMPARATOR
(DIFFERENTIAL INPUTS)
— TOP VIEW —



uA723CN (TI)
uA723DC (FSC)
HA17723G (HITACHI)
VOLTAGE REGULATOR
— TOP VIEW —



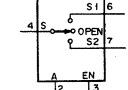
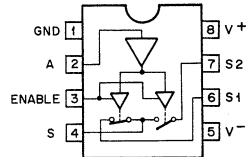
TL601CP (TI)
P-MOS ANALOG SWITCH
— TOP VIEW —



CONT	IN	ON CHANNEL
A	B	
0	0	S0
0	1	S0
1	0	S0
1	1	S1

0; LOW LEVEL
1; HIGH LEVEL

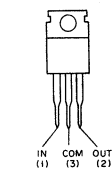
TL607CP (TI)
SN72607P (TI)
MOS ANALOG SWITCH
— TOP VIEW —



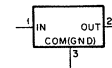
INPUTS	SW
A	EN
X	0
0	1
1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

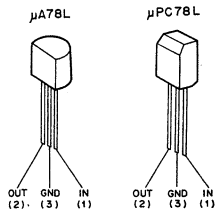
μA7800UC (FSC)
μPC14300H (NEC)
μPC7800H (NEC)
POSITIVE VOLTAGE REGULATOR (1A)



5V	μA7805UC	FS7805	μPC14305H	μPC7805H
6V	μA7806UC			
8V	μA7808UC		μPC14308H	μPC7808H
8.5V	μA7885UC			
12V	μA7812UC	FS7812	μPC14312H	μPC7812H
15V	μA7815UC	FS7815	μPC14315H	μPC7815H
18V	μA7818UC		μPC14318H	μPC7818H
24V	μA7824UC	FS7824	μPC14324H	μPC7824H

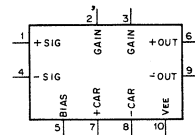
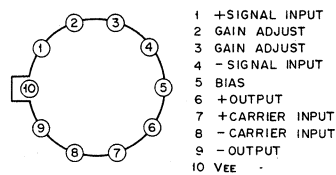


μ A78L□□AWV (FSC)
 μ A78L□□ACL (TI)
 μ PC78L□□ (NEC)
 μ PC78L□□A (NEC)
 POSITIVE VOLTAGE REGULATOR (100mA)

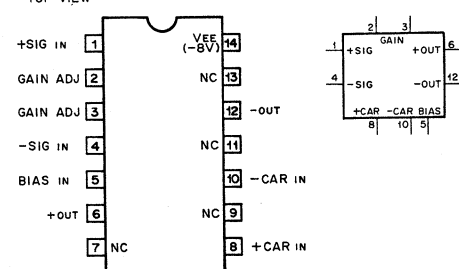


2.6V	μ A78L26AWV	μ A78L02ACL	μ PC78L05 (A)
5V	μ A78L05AWV	μ A78L05ACL	
6.2V	μ A78L62AWV	μ A78L06ACL	μ PC78L08
8V	μ A78L82AWV	μ A78L08ACL	
8.2V	μ A78L82AWV	μ A78L09ACL	
9V	μ A78L09AWV	μ A78L10ACL	
10V		μ A78L10ACL	
12V	μ A78L12AWV	μ A78L12ACL	μ PC78L12
15V	μ A78L15AWV	μ A78L15ACL	μ PC78L15
18V	μ A78L18AWV		
24V	μ A78L24AWV		

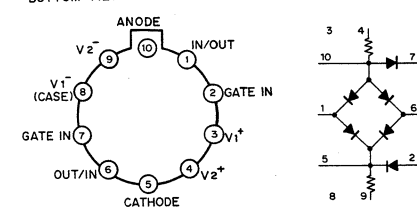
μ A796HC (FSC)
 μ A796HCA (FSC)
 MC1596G (MOTOROLA)
 DOUBLE-BALANCED MOD/DEM.



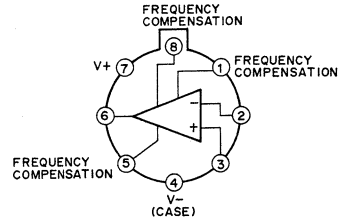
μ A796PC (FSC)
 MC1496P (MOTOROLA)
 BALANCED MODULATOR / DEMODULATOR



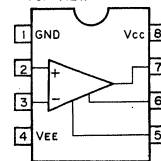
μ PC91A (NEC)
 ANALOG SWITCH



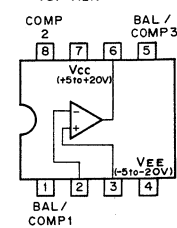
μ PC159A (NEC)
 OPERATIONAL AMPLIFIER
 (HIGH SPEED, WIDE BANDWIDTH)
 - BOTTOM VIEW -



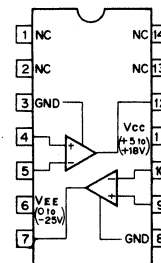
μ PC311C (NEC)
 VOLTAGE COMPARATOR
 - TOP VIEW -



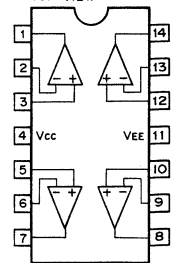
μ PC318C (NEC)
 HIGH-PERFORMANCE OPERATIONAL AMPLIFIER
 - TOP VIEW -



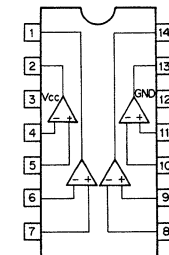
μ PC272C (NEC)
 μ PC319C (NEC)
 DUAL VOLTAGE COMPARATOR
 - TOP VIEW -



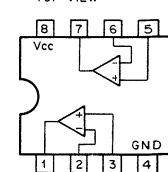
μ PC324C (NEC)
 QUAD. OP. AMPLIFIER
 - TOP VIEW -



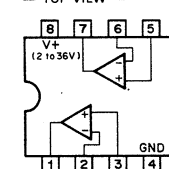
μ PC339C (NEC)
 COMPARATOR
 - TOP VIEW -



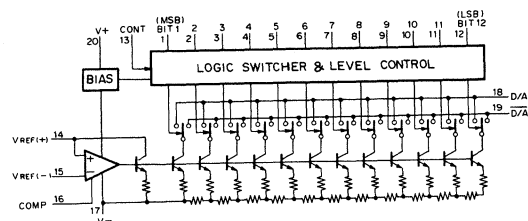
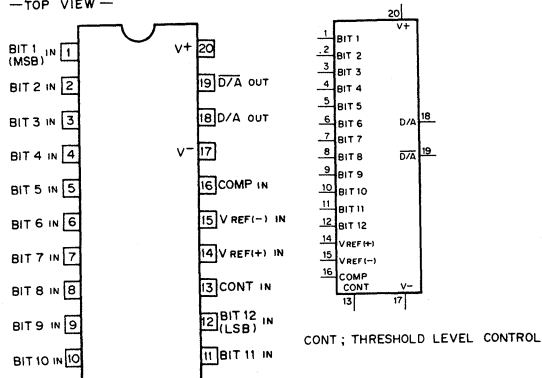
μ PC358C (NEC)
 LM358P (TI)
 DUAL OPERATIONAL AMPLIFIERS
 - TOP VIEW -



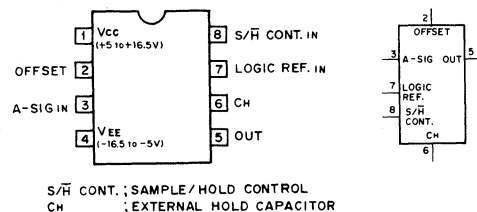
μ PC393C (NEC)
 μ PC393G (NEC)
 BA6993 (ROHM)
 VOLTAGE COMPARATOR
 - TOP VIEW -



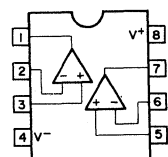
μPC648D (NEC)
12-BIT D/A CONVERTER WITH OPEN COLLECTOR OUTPUT
— TOP VIEW —



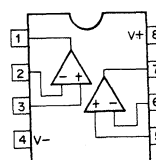
μPC649C (NEC)
SAMPLE AND HOLD CIRCUIT
— TOP VIEW —



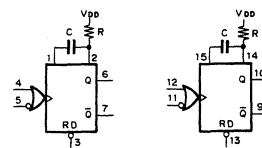
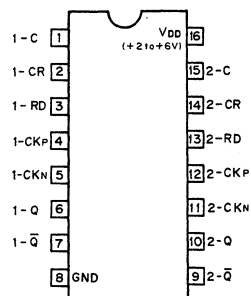
μPC4556C (NEC)
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)
— TOP VIEW —



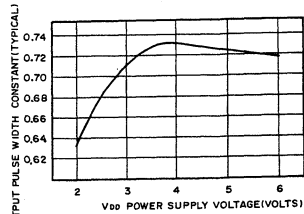
μPC4557C (NEC)
OPERATIONAL AMPLIFIER
(WIDE BAND, LOW NOISE)
— TOP VIEW —



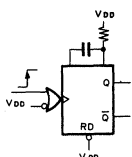
TC74HC4538P (TOSHIBA)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



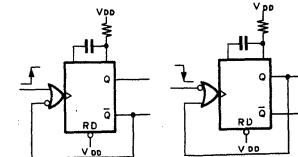
OUTPUT PULSE WIDTH = $k \cdot C \cdot R$



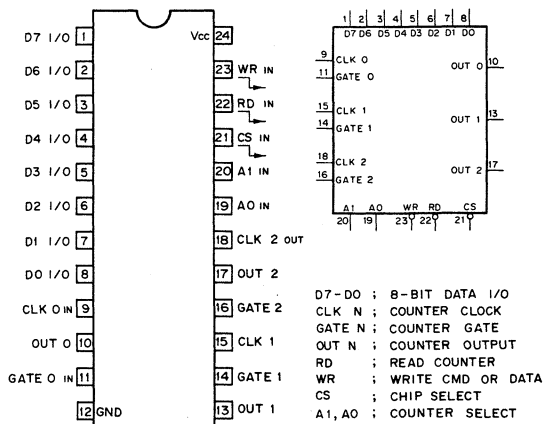
RETRIGGERABLE M.M.V



NON-RETRIGGERABLE M.M.V



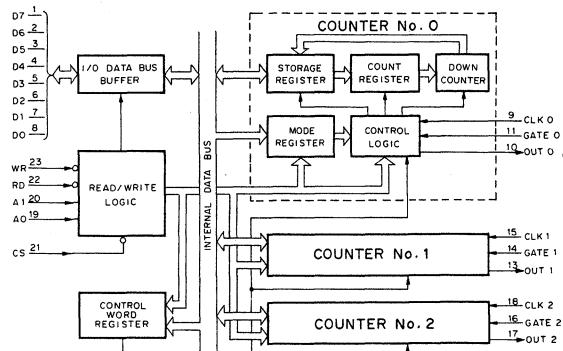
**μPD8253C-5 (NEC)
8253-5 (INTEL)**
N-MOS PROGRAMMABLE INTERVAL TIMER
— TOP VIEW —



FUNCTION TABLE

INPUTS						FUNCTION
CS	RD	WR	A1	AO		
0	1	0	0	0		Load Counter No. 0
0	1	0	0	1		Load Counter No. 1
0	1	0	1	0		Load Counter No. 2
0	1	0	1	1		Control Word
0	0	1	0	0		Read Counter 0
0	0	1	0	1		Read Counter 1
0	0	1	1	0		Read Counter 2
0	0	1	1	1		No-Operation (HI-Z)
1	X	X	X	X		Disable (HI-Z)
0	1	1	X	X		No-Operation (HI-Z)

0: LOW LEVEL
1: HIGH LEVEL
X: DON'T CARE
HI-Z: HIGH IMPEDANCE



CONTROL WORD FORMAT

D7	D6	D5	D4	D3	D2	D1	D0
SC1	SC2	RL1	RL0	M2	M1	M0	BCD

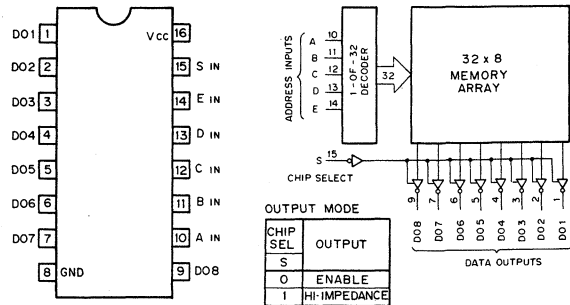
BCD	OPERATION
0	16-BIT BINARY
1	BCD(4-DECADE)

M2	M1	M0	MODE
0	0	0	0
0	0	1	1
X	1	0	2
X	1	1	3
1	0	0	4
1	0	1	5

RL1	RL0	OPERATION
0	0	COUNTER LATCHING
0	1	READ/LOAD LSB ONLY
1	0	READ/LOAD MSB ONLY
1	1	LSB FIRST THEN MSB

SC1	SC0	SELECTED COUNTER
0	0	COUNTER No. 0
0	1	COUNTER No. 1
1	0	COUNTER No. 2
1	1	ILLEGAL

MB7051 (FUJITSU)
256-BIT (32x8) PROM (3-STATE OUTPUT)
— TOP VIEW —

MB7051-A1U1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	3F, 1E, 39, 1B, 27, 36, 20, 3F, 3F, 2D, 36, 27, 1B, 39, 1E, 3F,
16-31	3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F, 3F,

MB7051-E1U1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	00, 03, 00, 03, 01, 03, 01, 03, 00, 03, 00, 03, 01, 03, 01, 03,
16-31	00, 03, 02, 03, 01, 03, 01, 03, 00, 03, 02, 03, 01, 03, 01, 03,

MB7051-L1A1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	FF, FB, F1, FD, FF, DF, FF, F9, 80, 1A, E0, F8, F0, DE, FC, FF,
16-31	D5, B0, 88, 8E, F2, D0, F2, 7E, 88, C3, F1, F9, FD, FE, FC, FC,

MB7051-L1U1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	FF, FE, F8, F7, FF, E7, FF, FA, 7F, 81, DF, FB, F6, E7, F4, FF,
16-31	95, B0, B0, E2, F1, D8, F4, E6, 88, 91, F7, FC, F3, FD, FC, FC,

MB7051-L2A1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	3A, 3A, 38, B8, 98, B8, BE, BE, B6, B7, 37, 33, 31, B1, B1, B7,
16-31	B7, B6, B6, B6, F6, E6, F6, B6, B6, B6, 36, 36, 36, 3E, 3E, 3A,

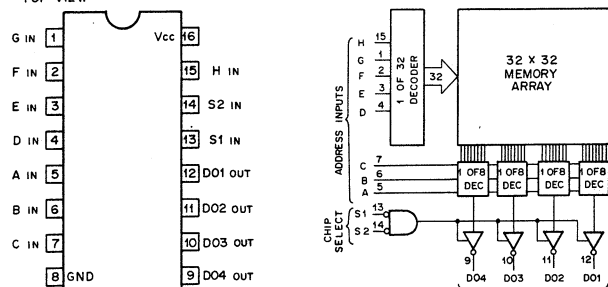
MB7051-L2U1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	3A, 3A, 38, B8, 98, B8, BE, BE, B6, B7, 37, 33, 31, B1, B1, B7,
16-31	B7, B6, B6, B6, F6, E6, F6, B6, B6, B6, 36, 36, 36, 3E, 3E, 3A,

MB7051-R2U1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0-15	10, 10, 01, 05, 0E, 0F, 18, 18, 30, 10, 01, 05, 0E, 0F, 18, 18,
16-31	17, 17, 00, 01, 0A, 0B, 1F, 3F, 17, 17, 00, 01, 0A, 0B, 1F, 1F,

MB7052 (FUJITSU)
1024-BIT (256 x 4) PROM (3-STATE OUTPUT)
— TOP VIEW —



WORD/ADDRESS TABLE

WORD	H	G	F	E	D	C	B	A
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	1	1
4	0	0	0	0	0	1	0	0
5	0	0	0	0	0	1	0	1
6	0	0	0	0	0	1	1	0
7	0	0	0	0	0	1	1	1
8	0	0	0	0	1	0	0	0
9	0	0	0	0	1	0	0	1
10	0	0	0	0	1	0	1	0
11	0	0	0	0	1	0	1	1
12	0	0	0	0	1	1	0	0
13	0	0	0	0	1	1	0	1
14	0	0	0	0	1	1	1	0
15	0	0	0	0	1	1	1	1

DATA CODE/ACTUAL DATA

DATA CODE	DO4	DO3	DO2	DO1
0	0	0	0	0
1	1	0	0	0
2	2	0	0	1
3	3	0	0	1
4	4	0	1	0
5	5	0	1	0
6	6	0	1	1
7	7	0	1	1
8	8	1	0	0
9	9	1	0	0
10	A	1	0	1
11	B	1	0	1
12	C	1	1	0
13	D	1	1	0
14	E	1	1	1
15	F	1	1	1

OUTPUT MODE

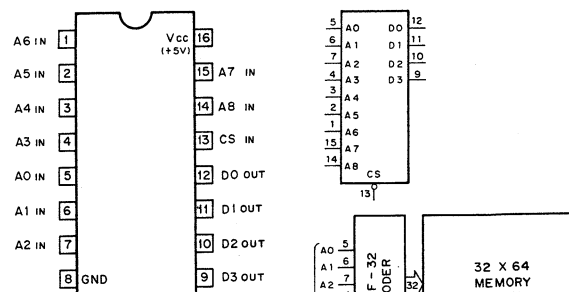
CHIP SEL	OUTPUT
S1	S2
0	0
1	1
X	X

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

MB7052-R1U1
PROGRAMMED DATA

WORD (ADDRESS)	DATA OUTPUTS (IN HEXADECIMAL)
0 - 15	0.3.6.1.7.2.3.2.2.3.2.7.1.6.3.0.
16 - 31	0.3.6.1.7.2.3.2.2.3.2.7.1.6.3.0.
32 - 47	8.B.E.9.F.A.B.A.A.B.A.F.9.E.B.8.
48 - 63	0.3.6.1.7.2.3.2.2.3.2.7.1.6.3.0.
64 - 79	4.3.6.5.7.6.7.2.2.7.6.7.5.6.3.4.
80 - 95	C.B.E.D.F.E.F.A.A.F.E.F.D.E.B.C.
96 - 111	4.3.6.5.7.6.7.2.2.7.6.7.5.6.3.4.
112 - 127	4.3.6.5.7.6.7.2.2.7.6.7.5.6.3.4.
128 - 143	0.3.6.1.7.2.3.2.2.3.2.7.1.6.3.0.
144 - 159	0.3.6.1.7.2.3.2.2.3.2.7.1.6.3.0.
160 - 175	8.B.E.9.F.A.B.A.A.B.A.F.9.E.B.8.
176 - 191	0.3.6.1.7.2.3.2.2.3.2.7.1.6.3.0.
192 - 207	4.3.6.5.7.6.7.2.2.7.6.7.5.6.3.4.
208 - 223	C.B.E.D.F.E.F.A.A.F.E.F.D.E.B.C.
224 - 239	4.3.6.5.7.6.7.2.2.7.6.7.5.6.3.4.
240 - 255	4.3.6.5.7.6.7.2.2.7.6.7.5.6.3.4.

MB7053 (FUJITSU)
2048-BIT (512 x 4) PROM (3-STATE OUTPUT)
— TOP VIEW —



OUTPUT MODE

CHIP SEL	OUTPUT
CS	CS
0	0
1	1

0; LOW LEVEL
1; HIGH LEVEL

WORD/ADDRESS TABLE

WORD	A8	A7	A6	A5	A4	A3	A2	A1	A0
0	000	0	0	0	0	0	0	0	0
1	001	0	0	0	0	0	0	0	1
2	002	0	0	0	0	0	0	1	0
3	003	0	0	0	0	0	0	1	1
4	004	0	0	0	0	0	1	0	0
5	005	0	0	0	0	0	1	0	1
6	006	0	0	0	0	0	1	1	0
7	007	0	0	0	0	0	1	1	1
8	008	0	0	0	0	1	0	0	0
9	009	0	0	0	0	1	0	0	1
10	010	0	0	0	0	1	0	1	0
11	011	0	0	0	0	1	0	1	1
12	012	0	0	0	0	1	1	0	0
13	013	0	0	0	0	1	1	0	1
14	014	0	0	0	0	1	1	1	0
15	015	0	0	0	0	1	1	1	1
16	016	0	0	0	1	0	0	0	0
17	017	0	0	0	1	0	0	0	1
18	018	0	0	0	1	0	0	1	0
19	019	0	0	0	1	0	0	1	1
20	020	0	0	0	1	0	1	0	0
21	021	0	0	0	1	0	1	0	1
22	022	0	0	0	1	0	1	1	0
23	023	0	0	0	1	0	1	1	1
24	024	0	0	0	1	1	0	0	0
25	025	0	0	0	1	1	0	0	1
26	026	0	0	0	1	1	0	1	0
27	027	0	0	0	1	1	0	1	1
28	028	0	0	0	1	1	1	0	0
29	029	0	0	0	1	1	1	0	1
30	030	0	0	0	1	1	1	1	0
31	031	0	0	0	1	1	1	1	1

DATA CODE/ACTUAL DATA

DATA CODE	D3	D2	D1	D0
0	0	0	0	0
1	1	1	0	0
2	2	2	0	1
3	3	3	0	1
4	4	4	0	1
5	5	5	0	1
6	6	6	0	1
7	7	7	0	1
8	8	8	1	0
9	9	9	1	0
10	A	A	1	0
11	B	B	1	0
12	C	C	1	0
13	D	D	1	0
14	E	E	1	0
15	F	F	1	0

BVH-2180/PS/PM
BVH-2000/PS/PM

C-3

C-2

C-1

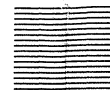
C-3

C-2

C-1

BVH-2500/P

SECTION C SCHEMATIC DIAGRAM & BOARD LAYOUT



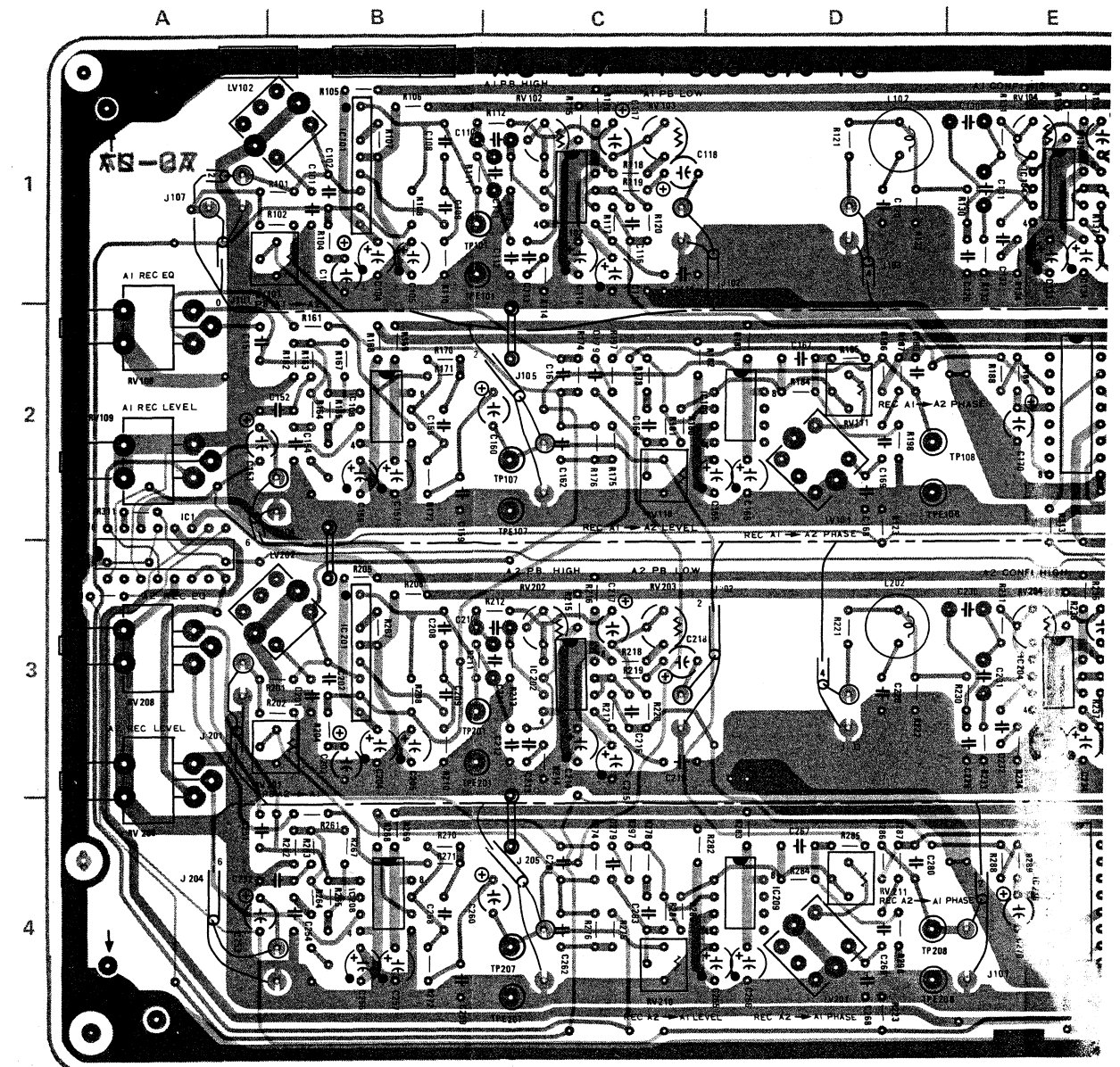
C-1

C-2

C-3

AU-27 BOARD (1-606-670-16)
Component Side

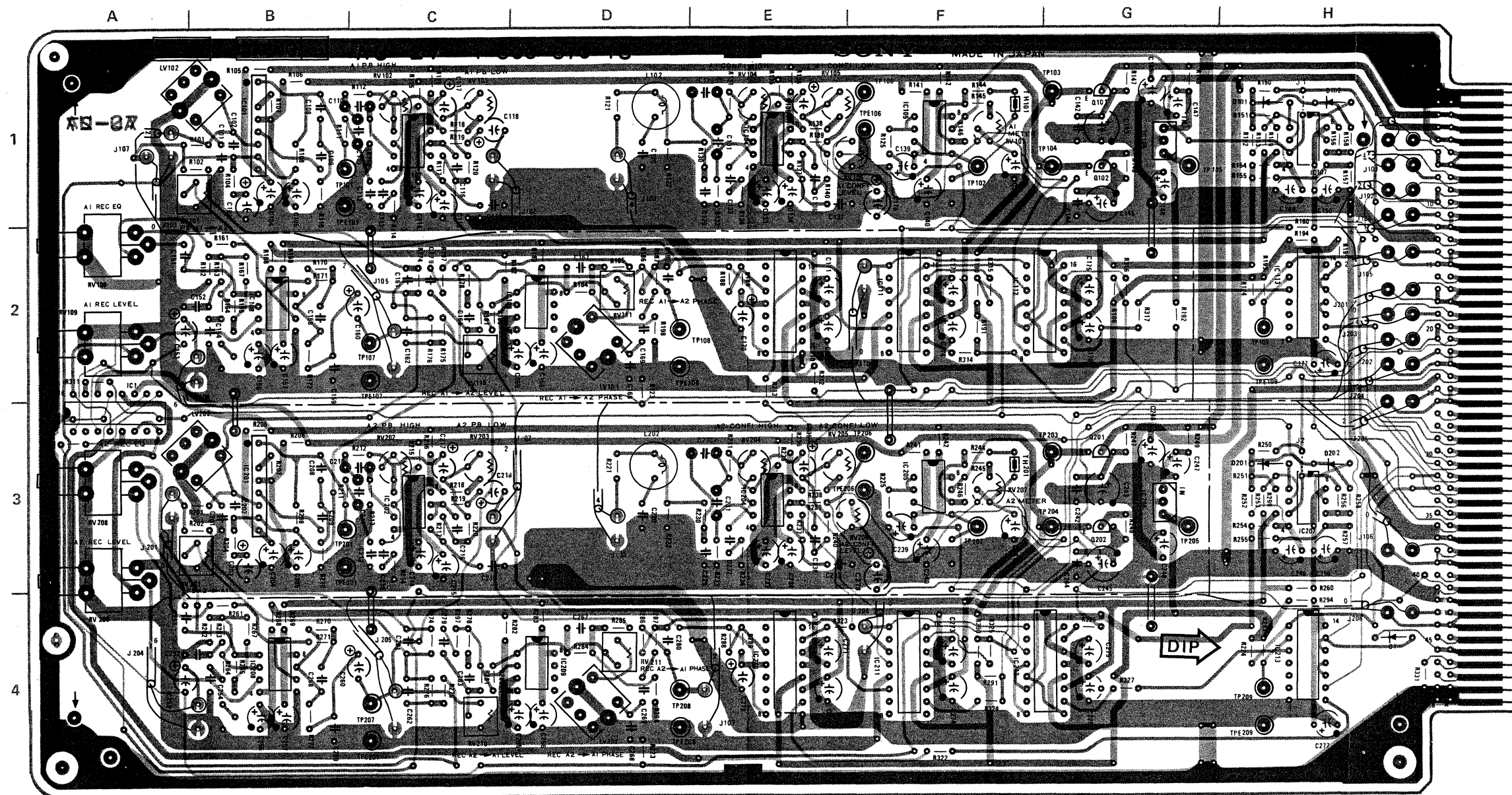
AU-27	
AUD-1	
REC EQ	RV108
REC LEVEL	RV109
AUD-2	
REC EQ	RV208
REC LEVEL	RV209
1	



1-606-670-16 COMPONENT SIDE

AU
-27AUD
-1REC
EQREC
LEVELAUD
-2REC
EQREC
LEVEL

1



1-606-670-16 COMPONENT SIDE

1-606-670-16 SOLDER SIDE

AU-27 (1-606-670-13 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

D1 4H	TH101 1F
D101 1H	TH202 3F
D102 1H	TP101 1C
D201 3H	TP102 1F
D202 3H	TP103 1G
IC1 3A	TP104 1G
IC101 1B	TP105 1G
IC102 1C	TP106 1F
IC104 1E	TP107 2C
IC105 1F	TP108 2D
IC106 1G	TP109 2H
IC107 1H	TP201 3C
IC108 2B	TP202 3F
IC109 2D	TP203 3G
IC110 2E	TP204 3G
IC111 2F	TP205 3G
IC112 2G	TP206 3F
IC113 2H	TP207 4C
IC201 3B	TP208 4D
IC202 3C	TP209 4H
IC204 3E	TPE101
IC205 3F	1C
IC206 3G	TPE106
IC207 3H	1F
IC208 4B	TPE107
IC209 4D	2C
IC210 4E	TPE108
IC211 4F	2D
IC212 4G	TPE109
IC213 4H	2H
J1 1H	TPE201
J2 3H	3C
LV101 2D	TPE206
LV102 1B	3F
LV201 4D	TPE207
LV202 3B	4C
	TPE208
	4D
	TPE209
	4H
O101 1G	
O102 1G	
O201 3G	
O202 3G	
RV101 1B	
RV102 1C	
RV103 1C	
RV104 1E	
RV105 1E	
RV106 1F	
RV107 1F	
RV108 2A	
RV109 2A	
RV110 2C	
RV111 2D	
RV201 3B	
RV202 3C	
RV203 3C	
RV204 3E	
RV205 3E	
RV206 3F	
RV207 3F	
RV208 3A	
RV209 3A	
RV210 4C	
RV211 2D	

C-6

C-5

C-4

BVH-2000/PS/PM
BVH-2180/PS/PM

C-6

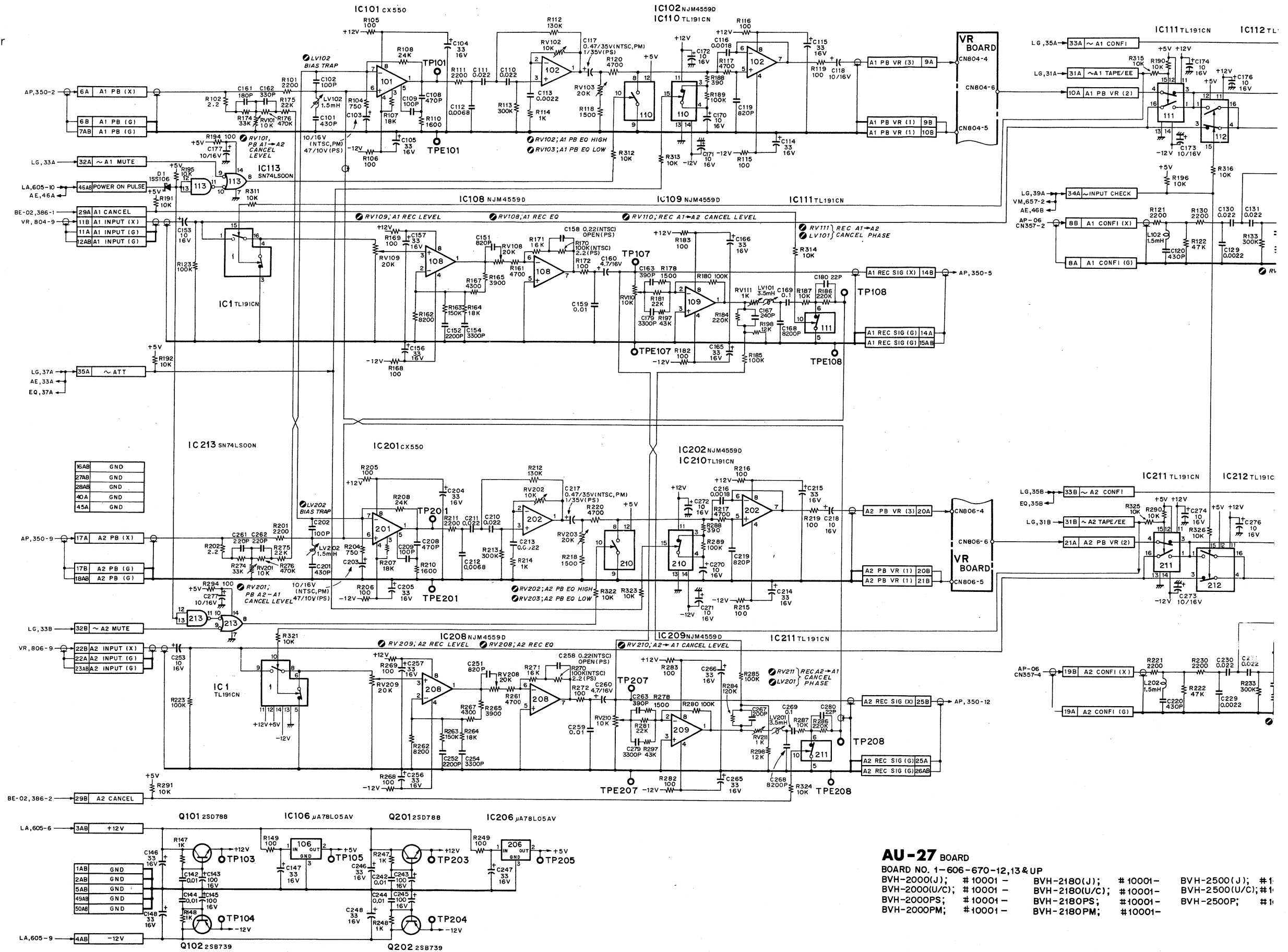
C-5

C-4

BVH-2500/P

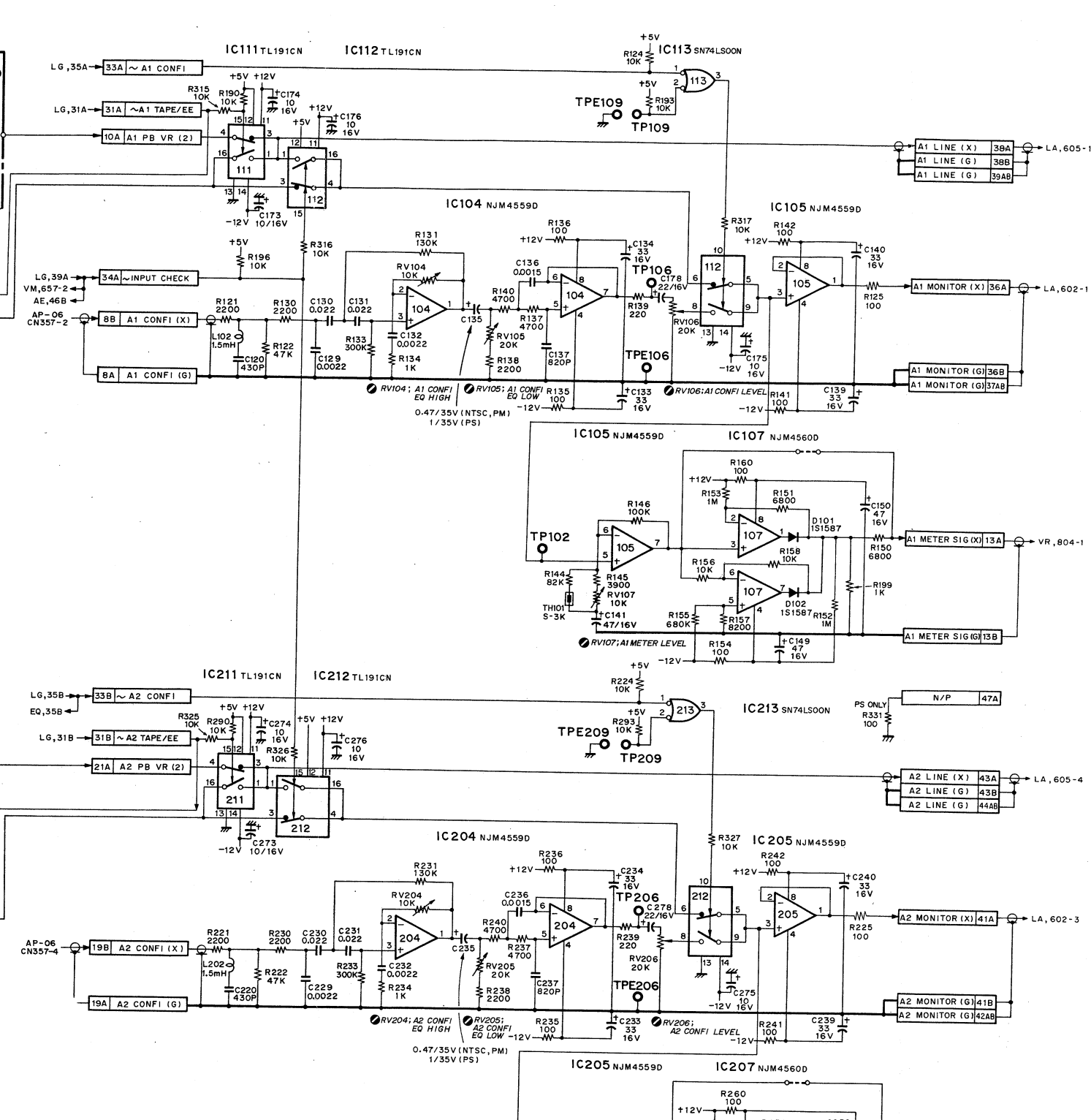
AU-27 BOARD

Audio-1, 2 REC EQ/PB Amplifier



C-7

C-8



C-9

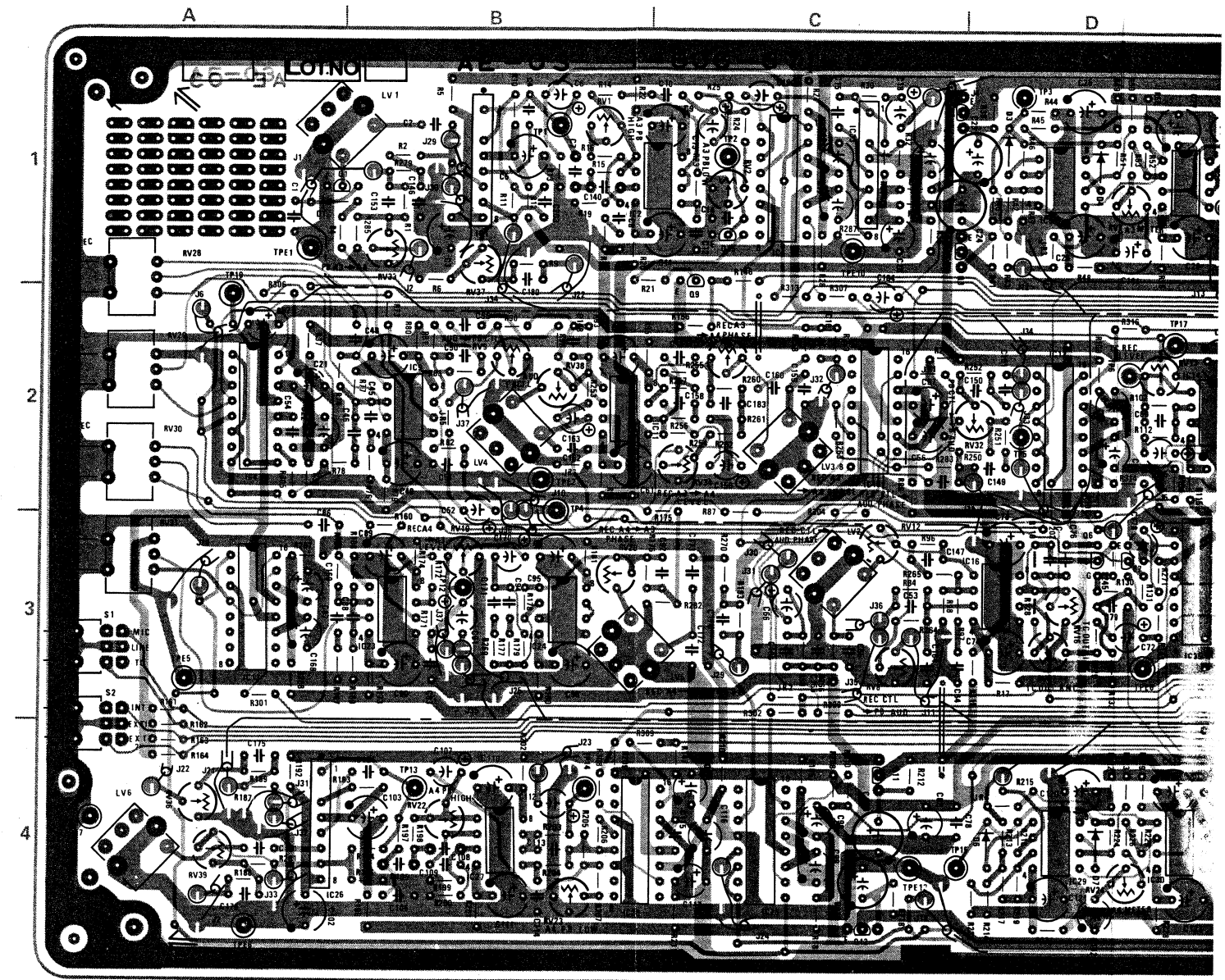
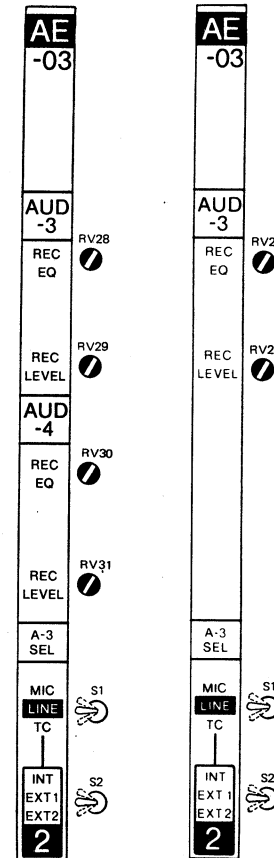
AE-03 BOARD (1-606-671-17)

Component Side

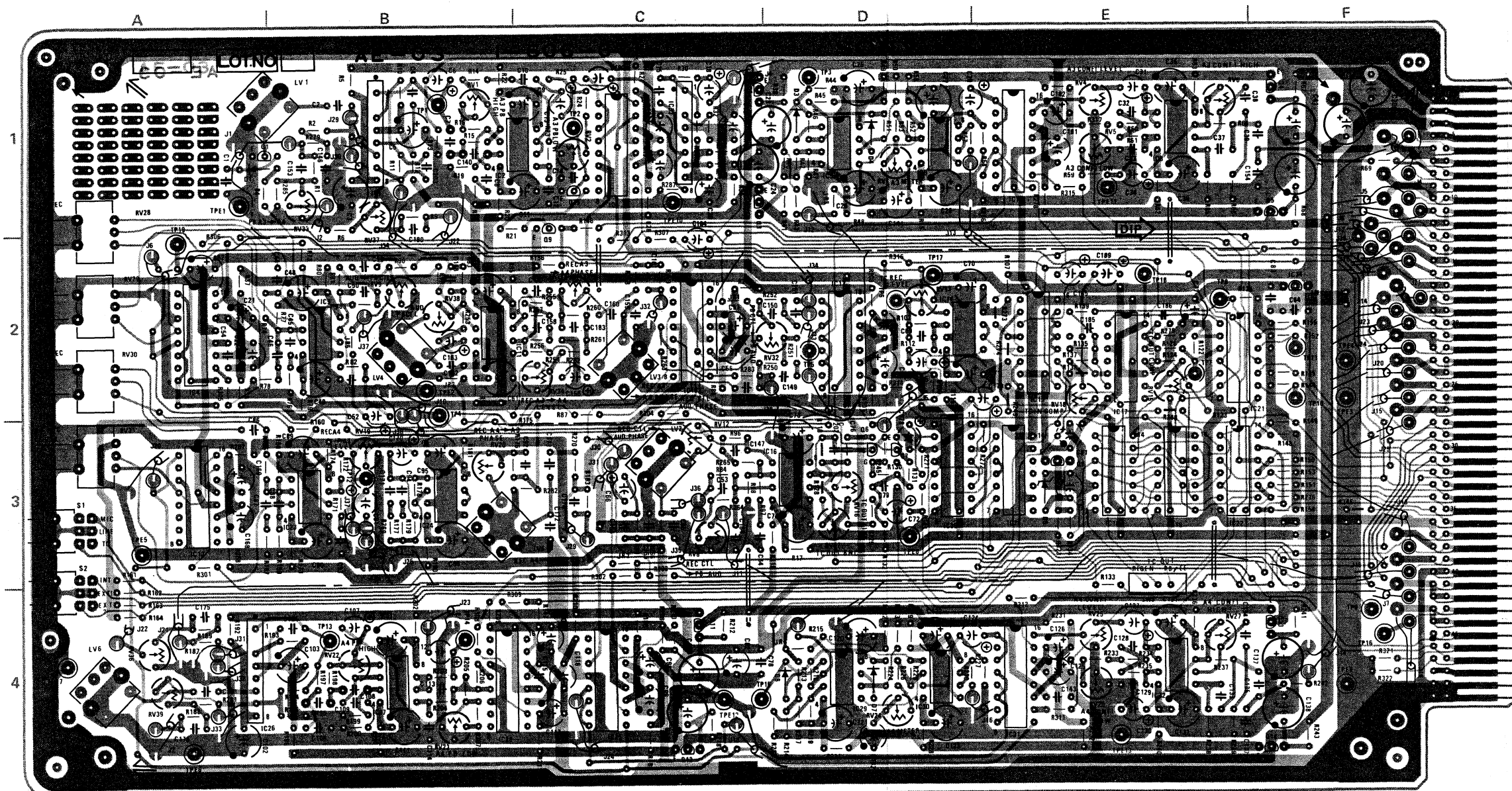
BVH-2000PS
BVH-2180PS
(for 04/14
models)

BVH-2000/PS/PM
BVH-2180/PS/PM
(for 02/12/00/10
models)

BVH-2500/P



1-606-671-17 COMPONENT SIDE



1-606-671-17 COMPONENT SIDE

1-606-671-17 SOLDER SIDE

AE-03 (1-606-671-16 & UP)

BVH-2000/PM
BVH-2180/PM
BVH-2000PS
BVH-2180PS
(00/10/02/12 MODEL)
BVH-2500/P

D1	1A	RV1	1B
D3	1D	RV2	1C
D4	1D	RV3	1D
D5	3E	RV4	1E
		RV5	1E
IC1	1B	RV6	1E
IC2	1C	RV7	1E
IC3	1C	RV8	1E
IC4	2A	RV9	2B
IC5	1D	RV10	2C
IC6	1D	RV11	2C
IC7	1E	RV12	2C
IC8	1E	RV13	2D
IC9	2B	RV14	2E
IC10	2C	RV15	2E
IC11	2B	RV16	2E
IC12	2D	RV17	2E
IC13	2D	RV18	2E
IC14	2D	RV19	2E
IC15	2E	RV20	2E
IC16	3D	RV21	2E
IC17	2E	RV22	2E
IC18	3E	RV23	2E
IC19	3E	RV24	2E
IC21	2F	RV25	2E
IC22	3F	RV26	2E
IC23	3F	RV27	2E
IC24	3F	RV28	2E
IC25	3F	RV29	2E
IC26	3F	RV30	2E
IC27	3F	RV31	2E
IC28	3F	RV32	2E
IC29	3F	RV33	2E
IC30	3F	RV34	2E
IC31	3F	RV35	2E
IC32	3F	RV36	2E
IC33	3F	RV37	2E
IC34	3F	RV38	2E

LV1	1B	TP1	1B
LV2	3C	TP2	1C
LV6	4A	TP3	1D
		TP4	1E
Q1	1B	TP5	2D
Q2	1D	TP6	2E
Q3	1D	TP7	2E
Q4	1F	TP8	2E
Q5	1F	TP9	2E
Q6	3D	TP10	2F
Q7	3D	TP11	2F
Q8	3E	TP12	3B
Q9	1C	TP13	4B
Q15	1C	TP14	4B
		TP15	4D
		TP16	4F
		TP17	2D
		TP18	2E
		TP19	2A

AE-03 (1-606-671-16 & UP)

BVH-2000PS
BVH-2180PS
(04/14 MODEL)

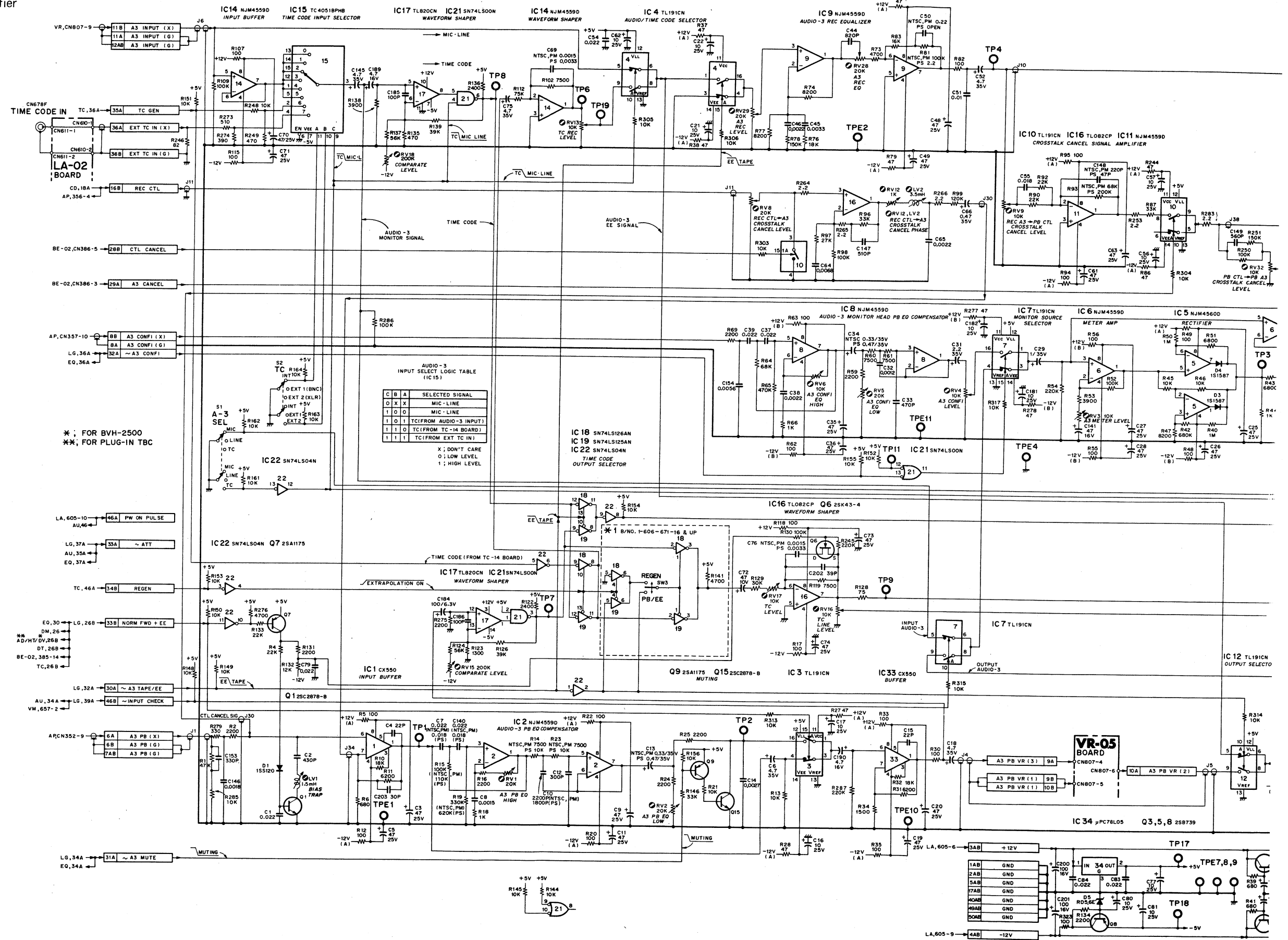
D1	1A	RV1	1B
D3	1D	RV2	1C
D4	1D	RV3	1D
D5	3E	RV4	1E
		RV5	1E
IC1	1B	RV6	1E
IC2	1C	RV7	1E
IC3	1C	RV8	1E
IC4	2A	RV9	2B
IC5	1D	RV10	2C
IC6	1D	RV11	2C
IC7	1E	RV12	2C
IC8	1E	RV13	2D
IC9	2B	RV14	2E
IC10	2C	RV15	2E
IC11	2B	RV16	2E
IC12	2D	RV17	2E
IC13	2D	RV18	2E
IC14	2D	RV19	2E
IC15	2E	RV20	2E
IC16	3D	RV21	2E
IC17	2E	RV22	2E
IC18	3E	RV23	2E
IC19	3E	RV24	2E
IC21	2F	RV25	2E
IC22	3F	RV26	2E
IC23	3F	RV27	2E
IC24	3F	RV28	2E
IC25	3F	RV29	2E
IC26	3F	RV30	2E
IC27	3F	RV31	2E
IC28	3F	RV32	2E
IC29	3F	RV33	2E
IC30	3F	RV34	2E
IC31	3F	RV35	2E
IC32	3F	RV36	2E
IC33	3F	RV37	2E
IC34	3F	RV38	2E

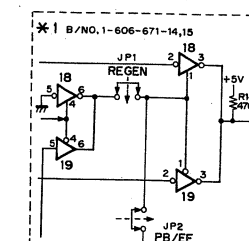
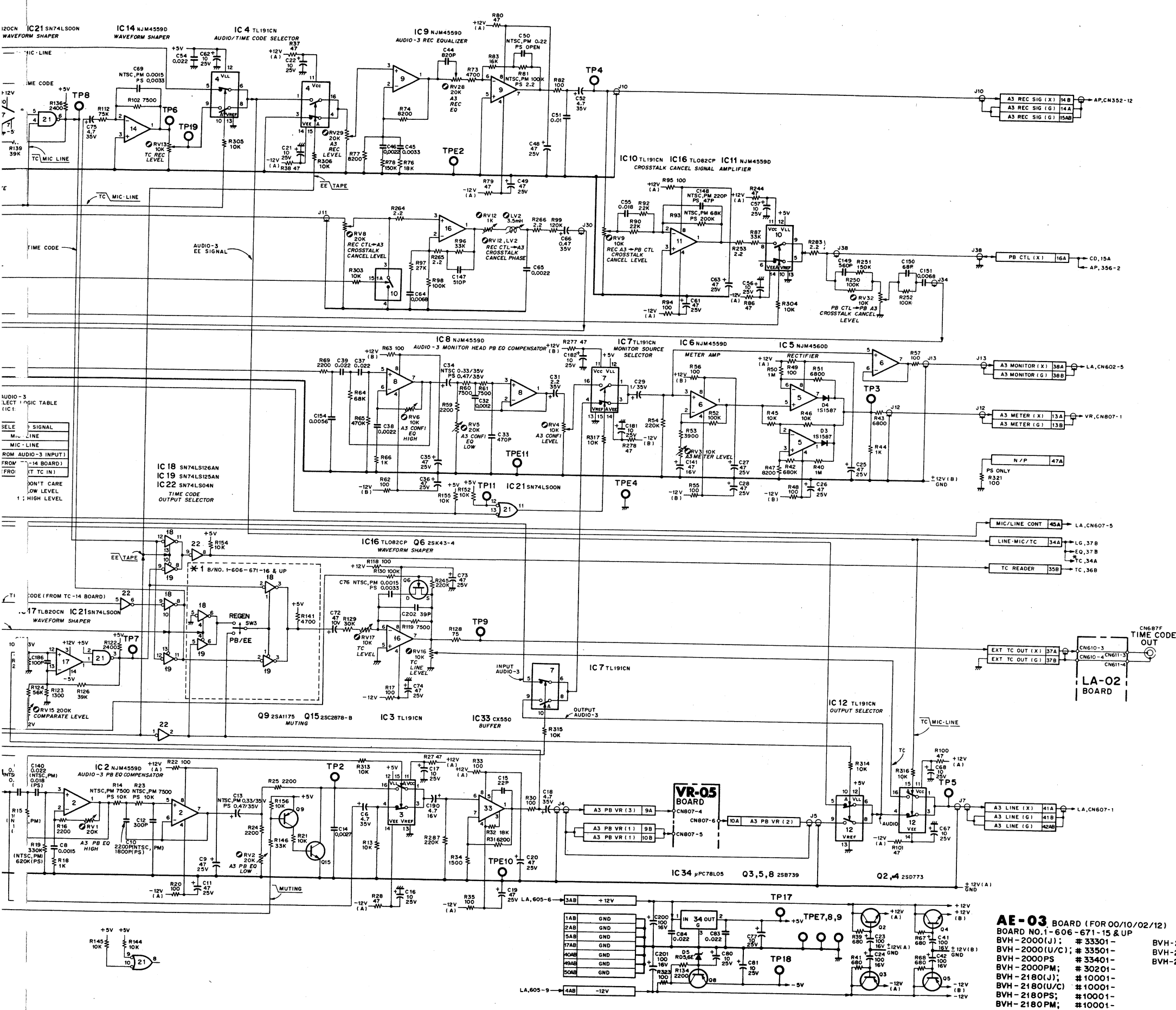
LV1	1B	TP1	1B
LV2	3C	TP2	1C
LV6	4A	TP3	1D
		TP4	1E
Q1	1B	TP5	2D
Q2	1D	TP6	2E
Q3	1D	TP7	2E
Q4	1F	TP8	2E
Q5	1F	TP9	2E
Q6	3D	TP10	2F
Q7	3D	TP11	2F
Q8	3E	TP12	3B
Q9	1C	TP13	4B
Q15	1C	TP14	4B
		TP15	4D
		TP16	4F
		TP17	2D
		TP18	2E
		TP19	2A

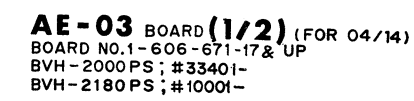
BVH-2000/PS/PM
BVH-2180/PS/PM

AE-03 BOARD

Audio-3 REC EQ/PB Amplifier

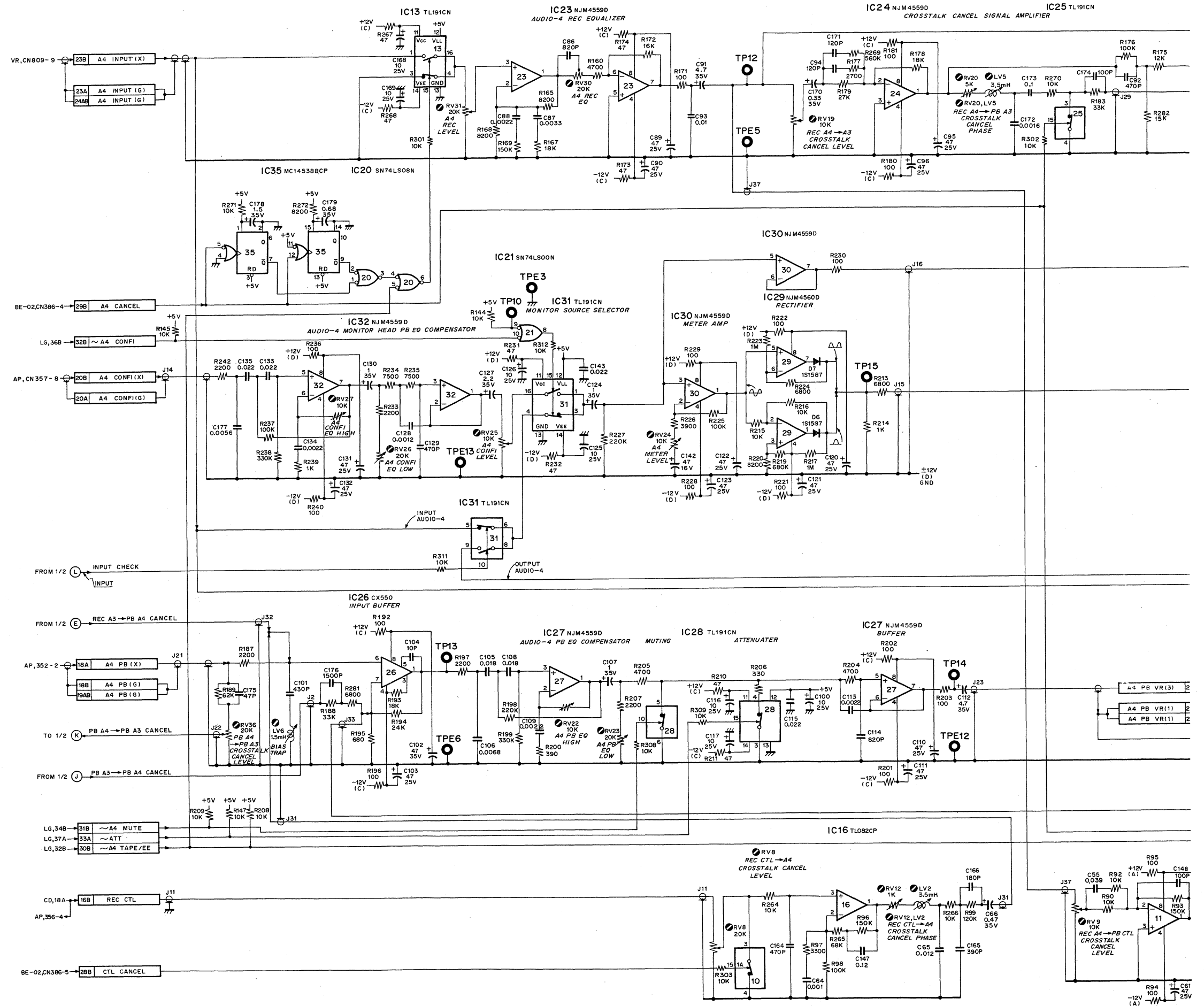


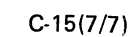




AE-03 BOARD (2/2); FOR 04/14 MODEL

Audio-4 REC EQ/PB Amplifier





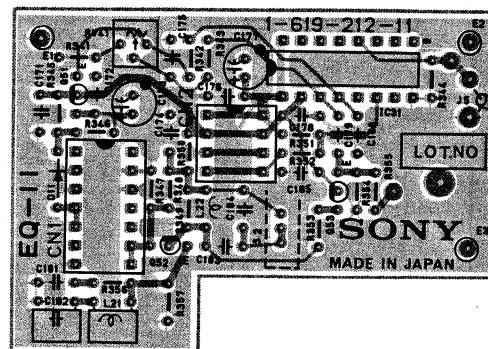
EQ-02 BOARD (1-606-659-15)

Component Side

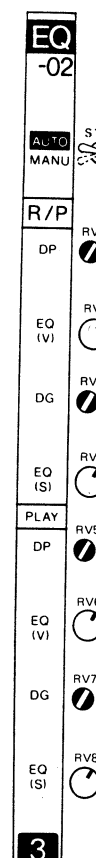
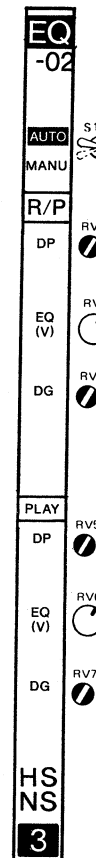
(For 10, 12, 14 MODEL)

EQ-11 BOARD (1-619-212-11)

Component Side



- 1-619-212-11 COMPONENT SIDE
- 1-619-212-11 SOLDER SIDE

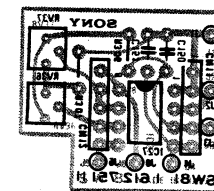


This board is used only with
EQ-02 older than
Part No. 1-606-659-15

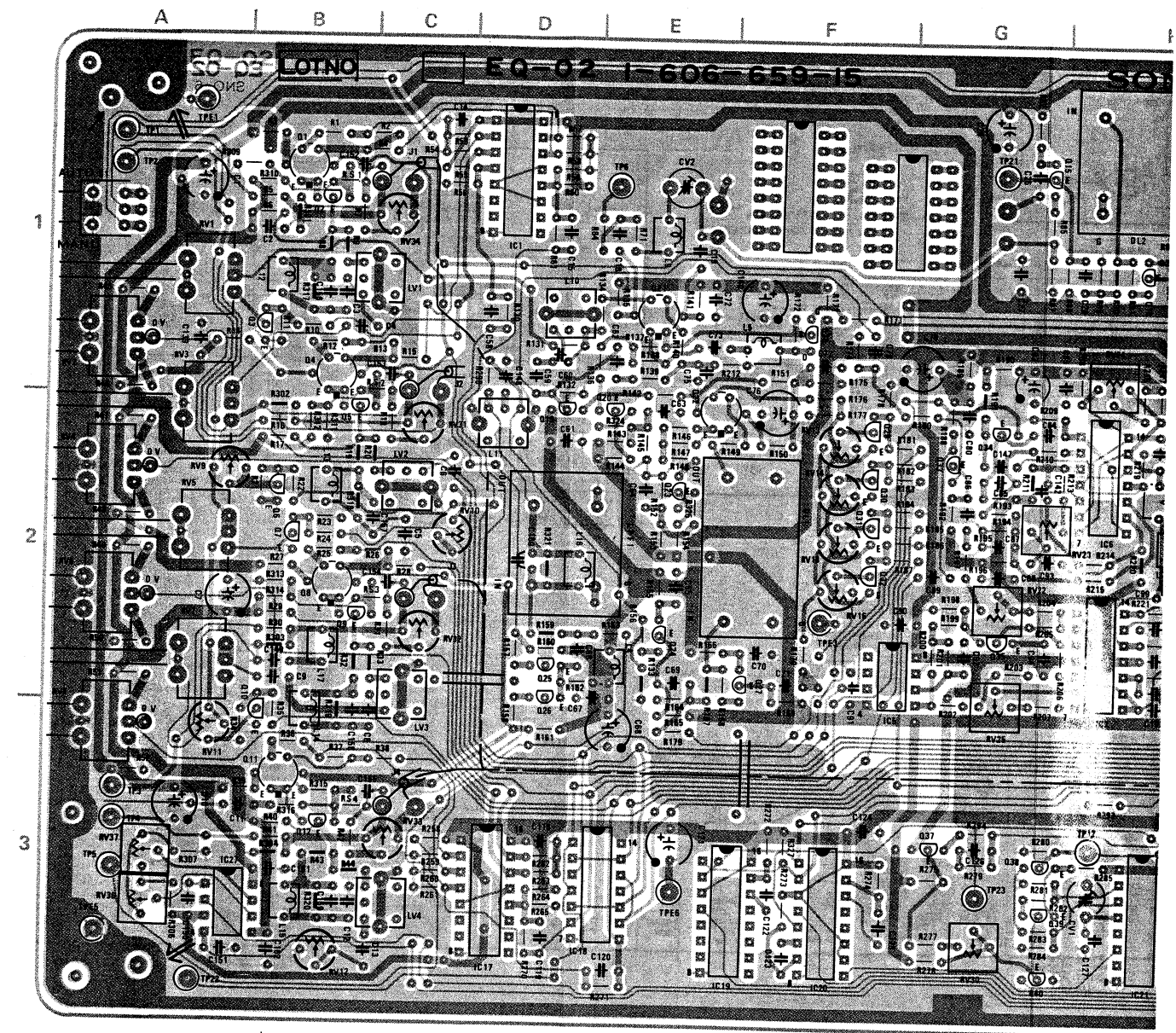
SW-81 BOARD (1-612-751-11)

Solder Side

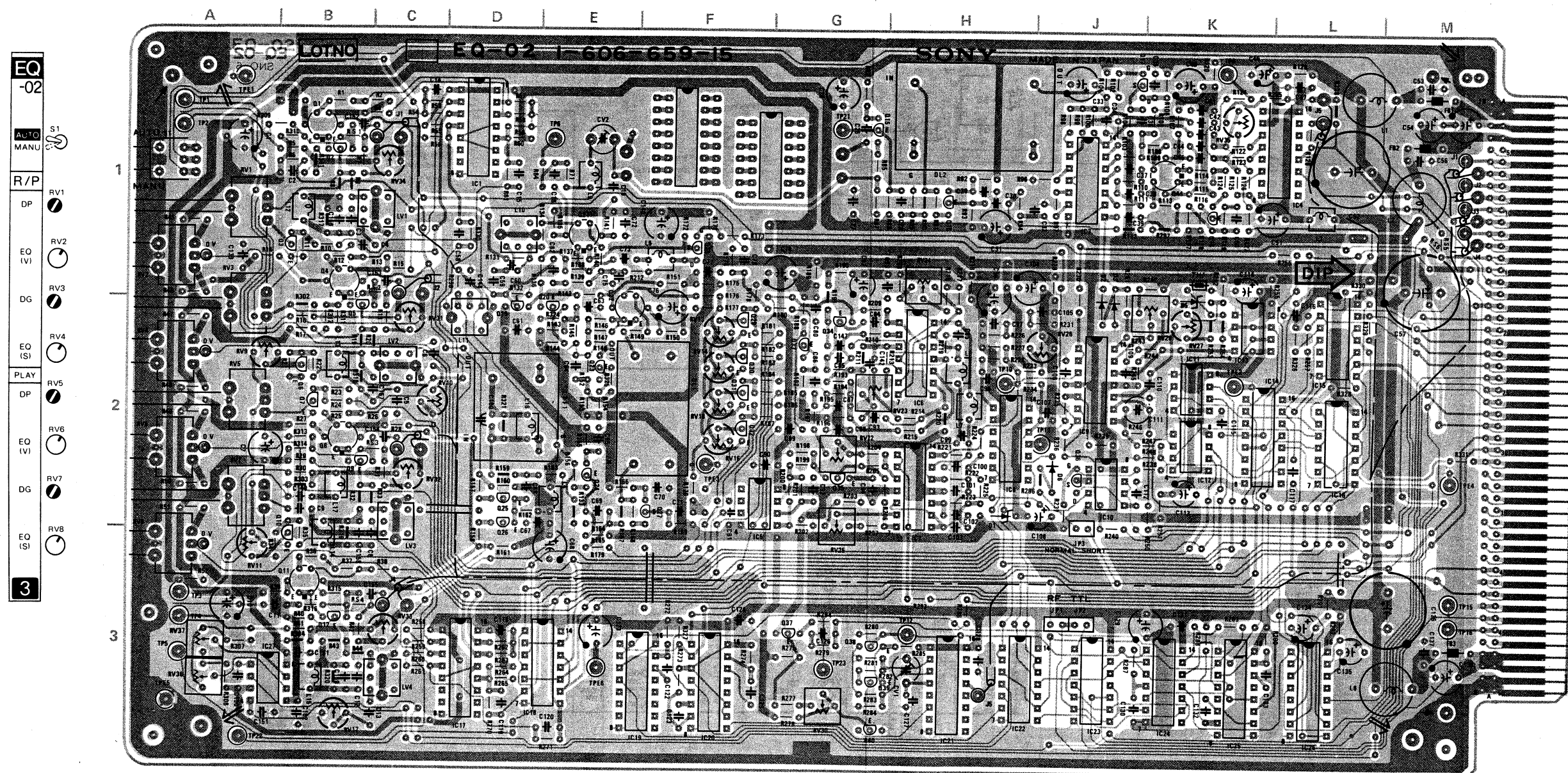
For PS



- 1-612-751-11
SOLDER SIDE



- 1-606-659-15 COMPONENT SIDE



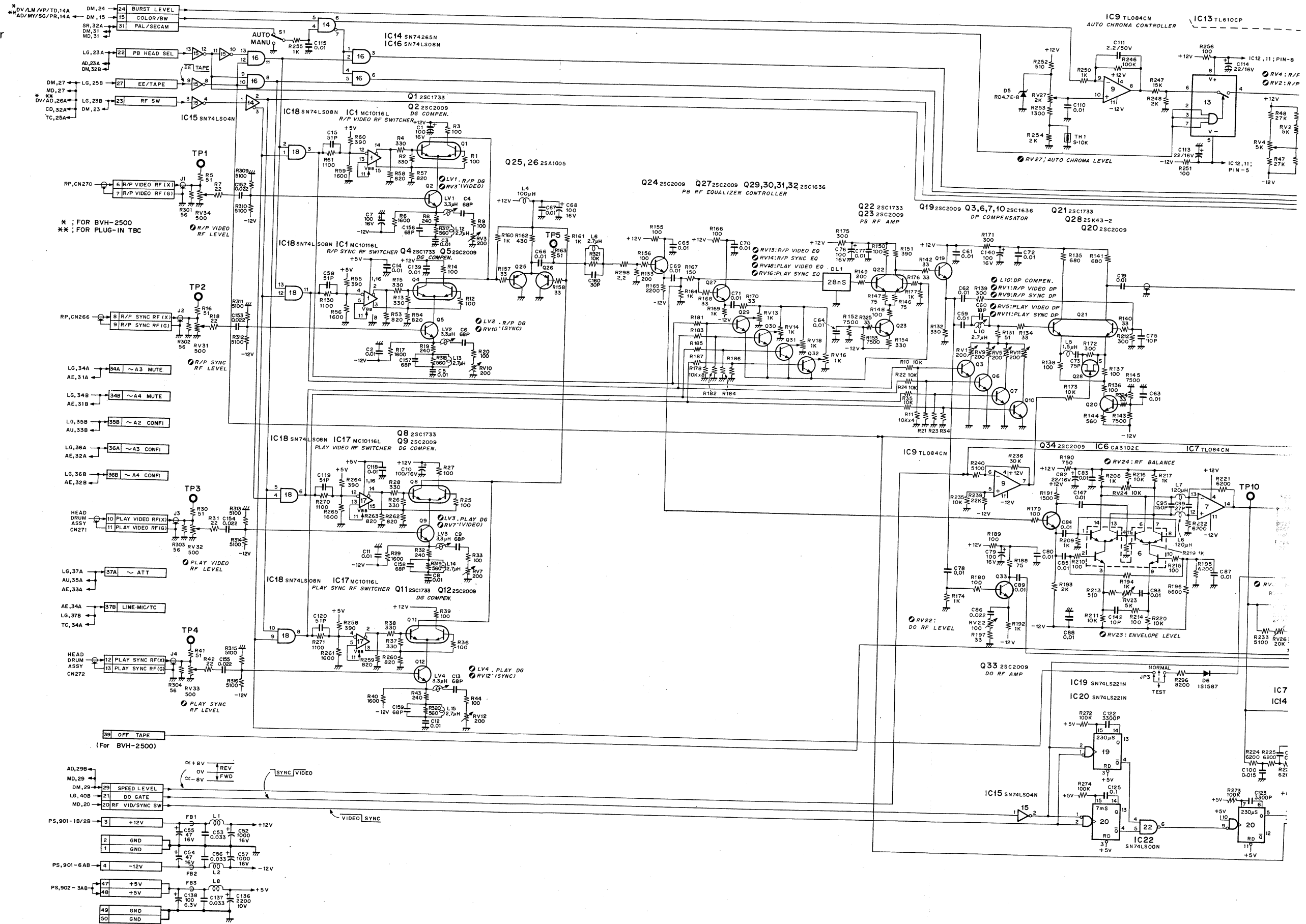
2000PS; #22301 - 34699
2180PS; #10001 - 10599
2500P; #10001 - 10699

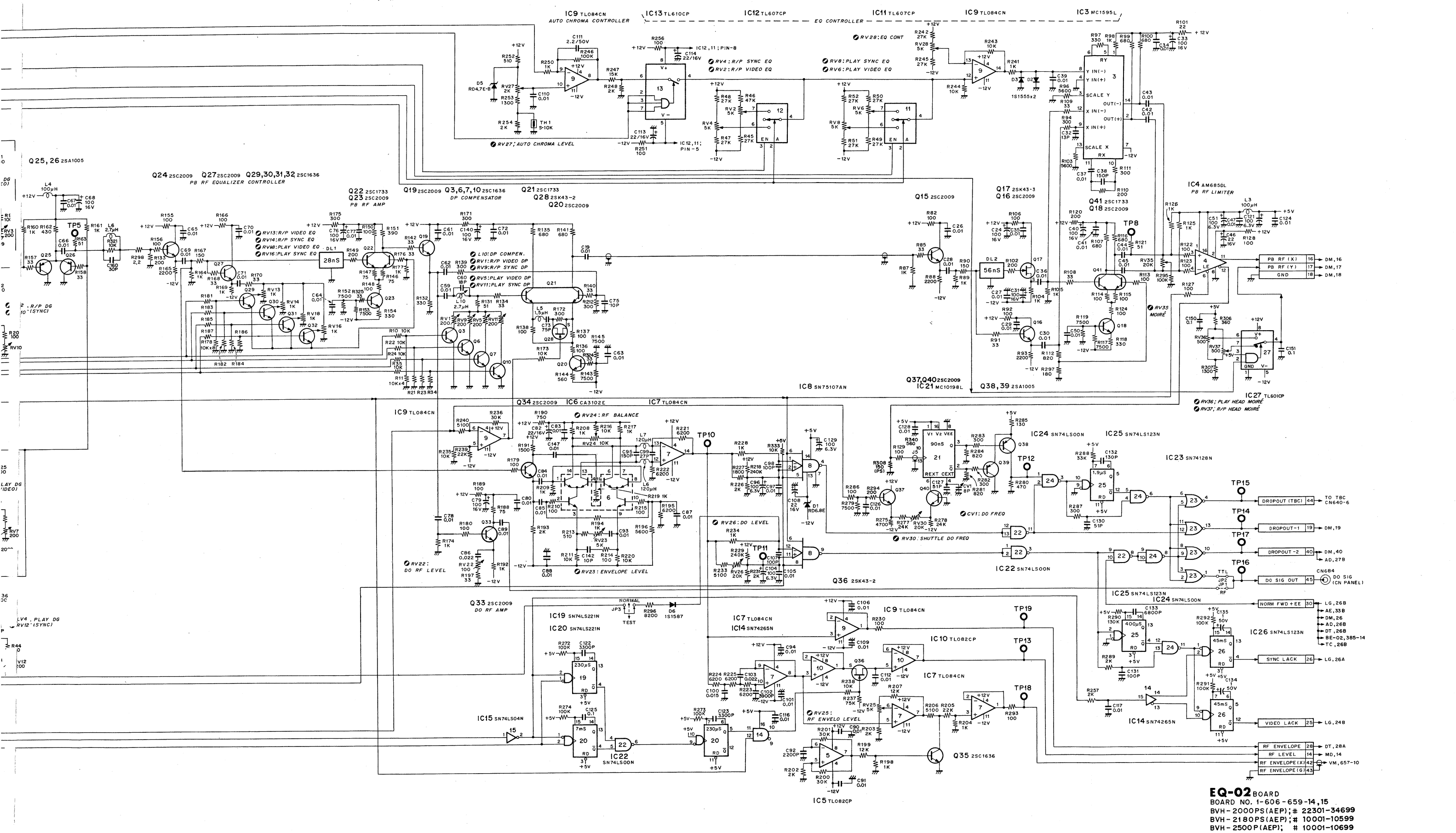
CARD RACK EQ-02

EQ-02 CARD RACK

1-606-659-14, 15
2000PS; #22301 - 34699
2180PS; #10001 - 10599
2500P; #10001 - 10699

EQ-02 BOARD
Video/Sync PB Equalizer

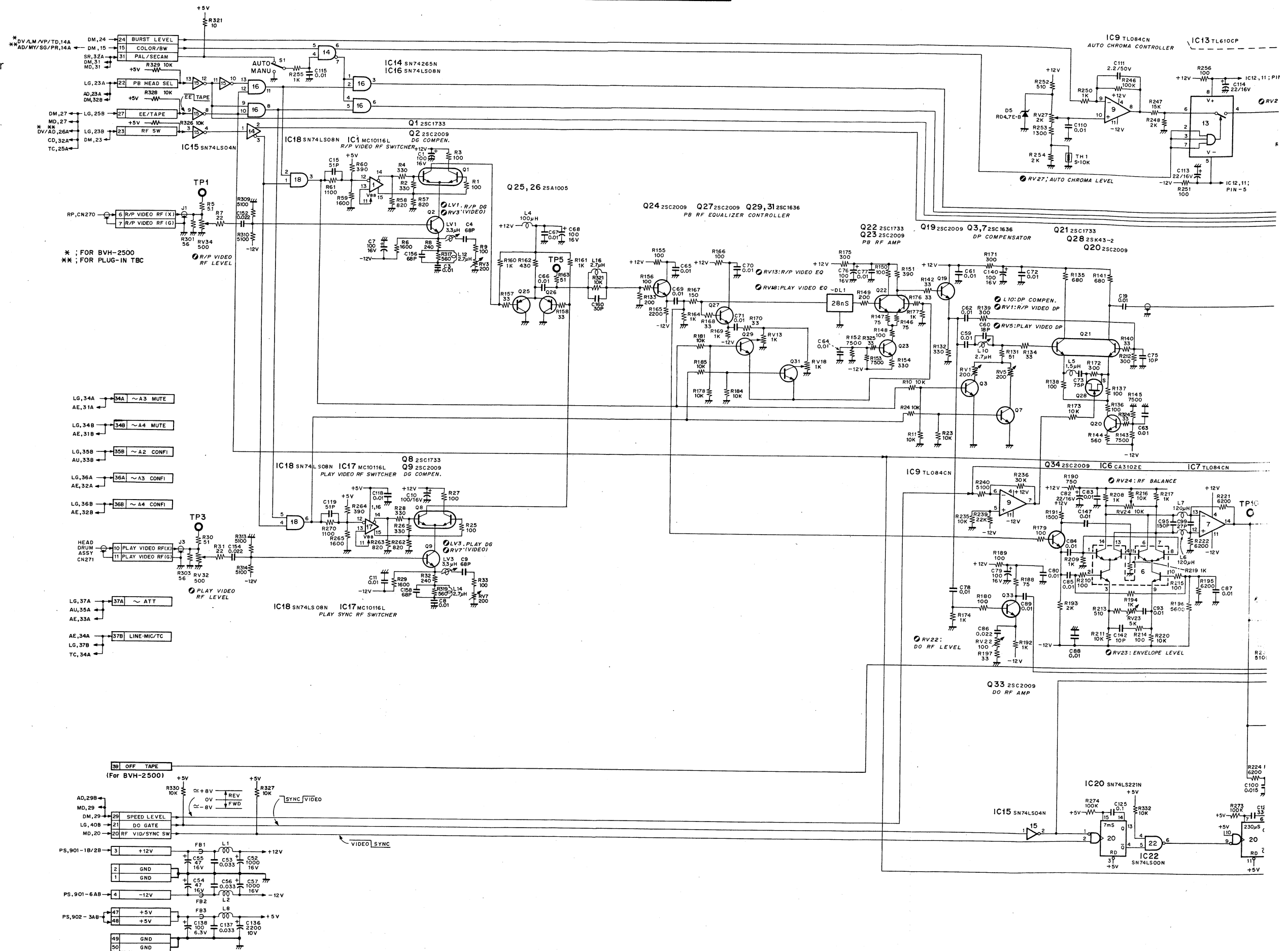


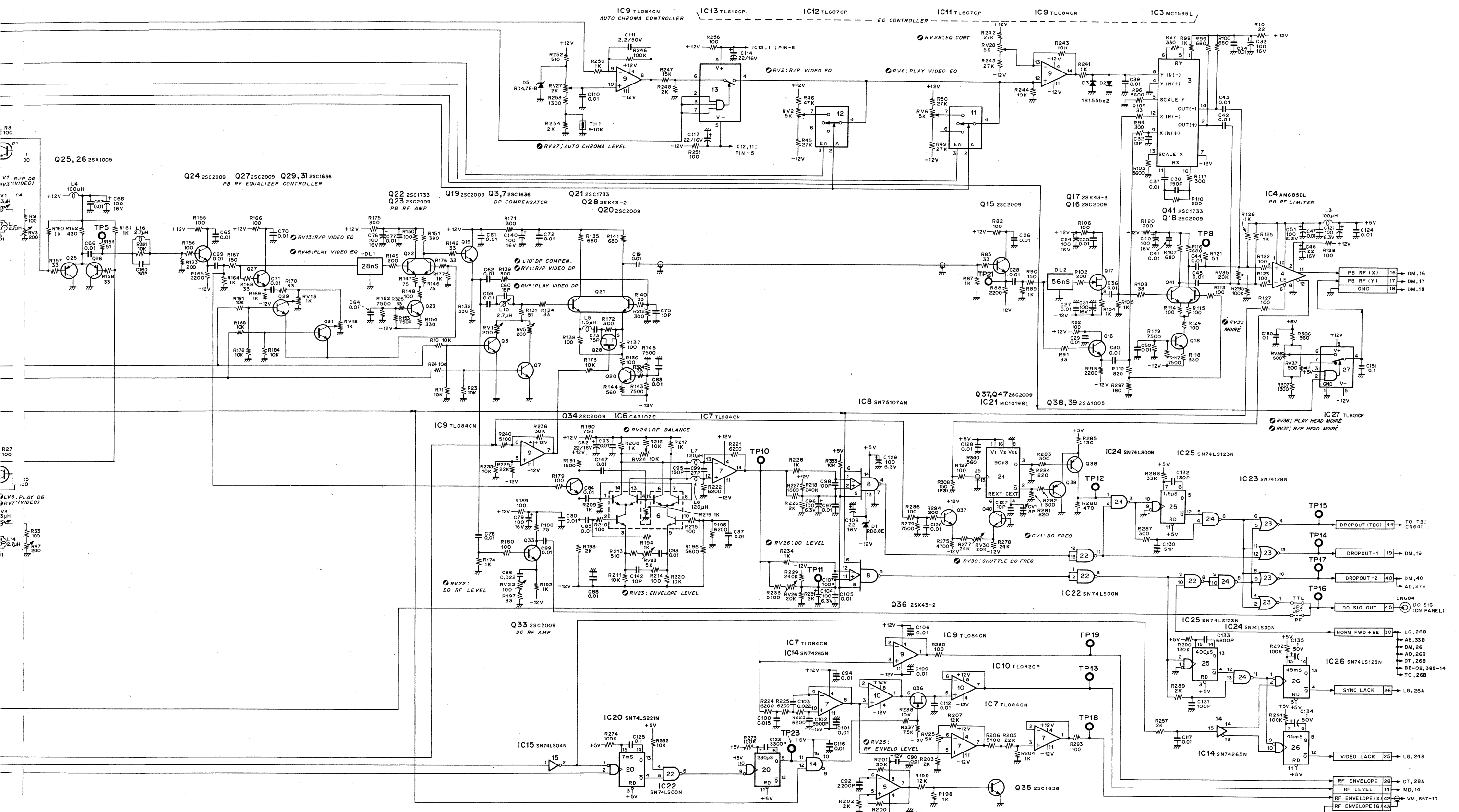


EQ-02 BOARD
BOARD NO. 1-606-659-14,15
BVH-2000PS(AEP); # 22301-34699
BVH-2180PS(AEP); # 10001-10599
BVH-2500P(AEP); # 10001-10699

EQ-02 BOARD

Video/Sync PB Equalizer





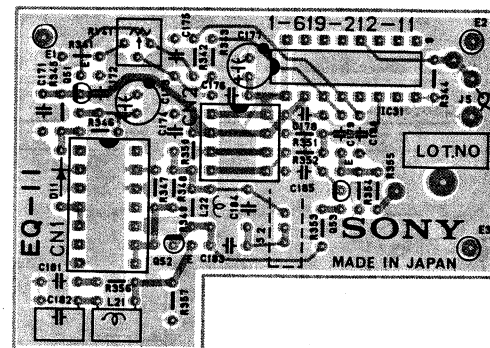
EQ-02 BOARD (1-606-659-17)

Component Side

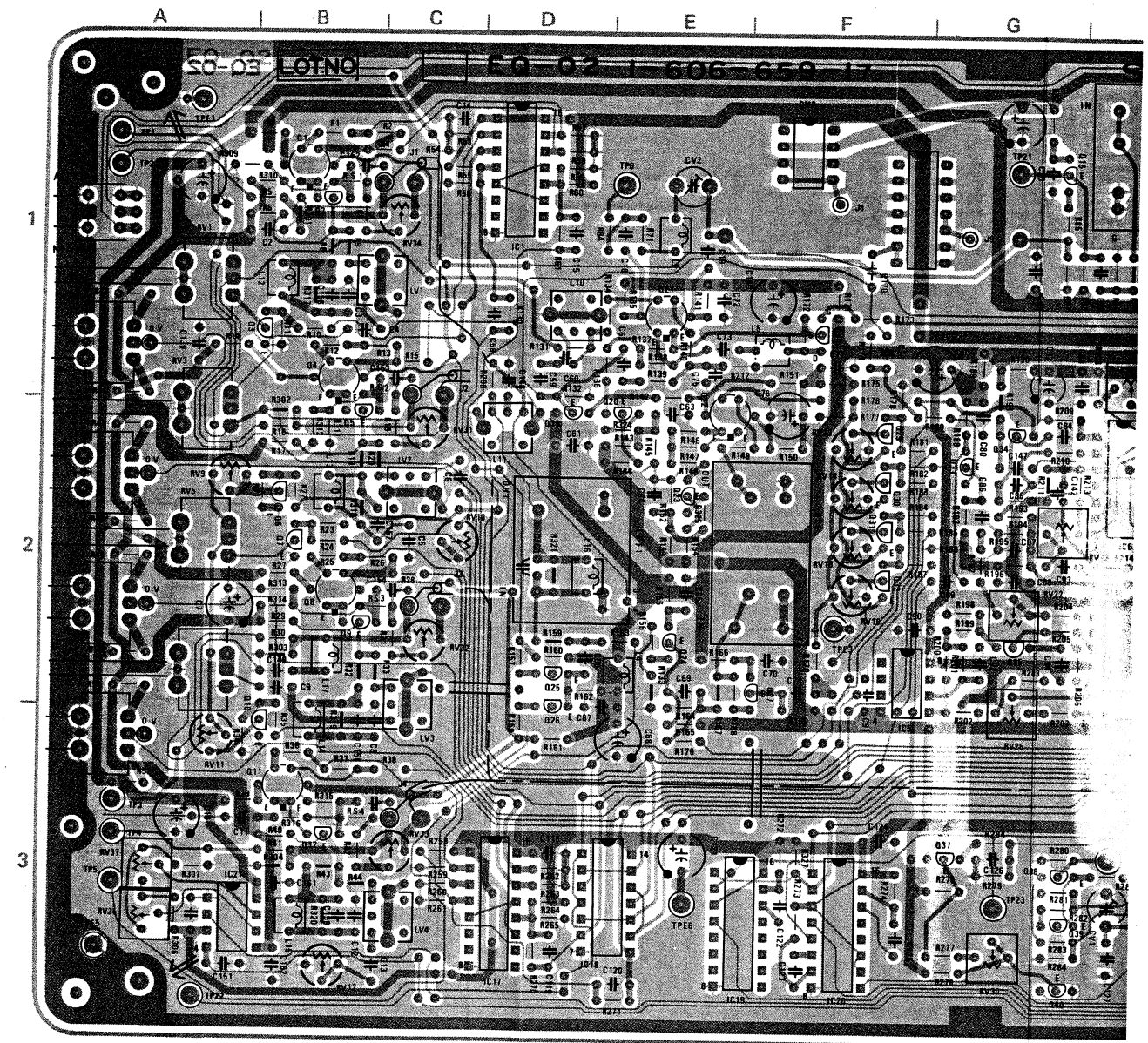
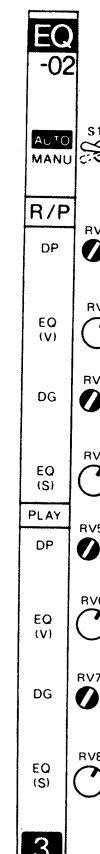
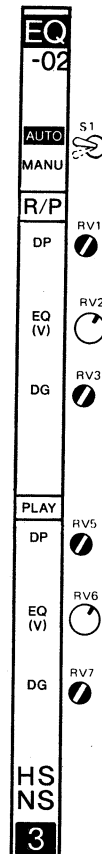
(For 10, 12, 14 MODEL)

EQ-11 BOARD (1-619-212-11)

Component Side



- 1-619-212-11 COMPONENT SIDE
- 1-619-212-11 SOLDER SIDE



■ 1-606-659-17 COMPONENT SIDE

EL

EQ-02

S1
MANU

R/P

DP RV1

EQ (VI) RV2

DG RV3

EQ (SI) RV4

PLAY RV5

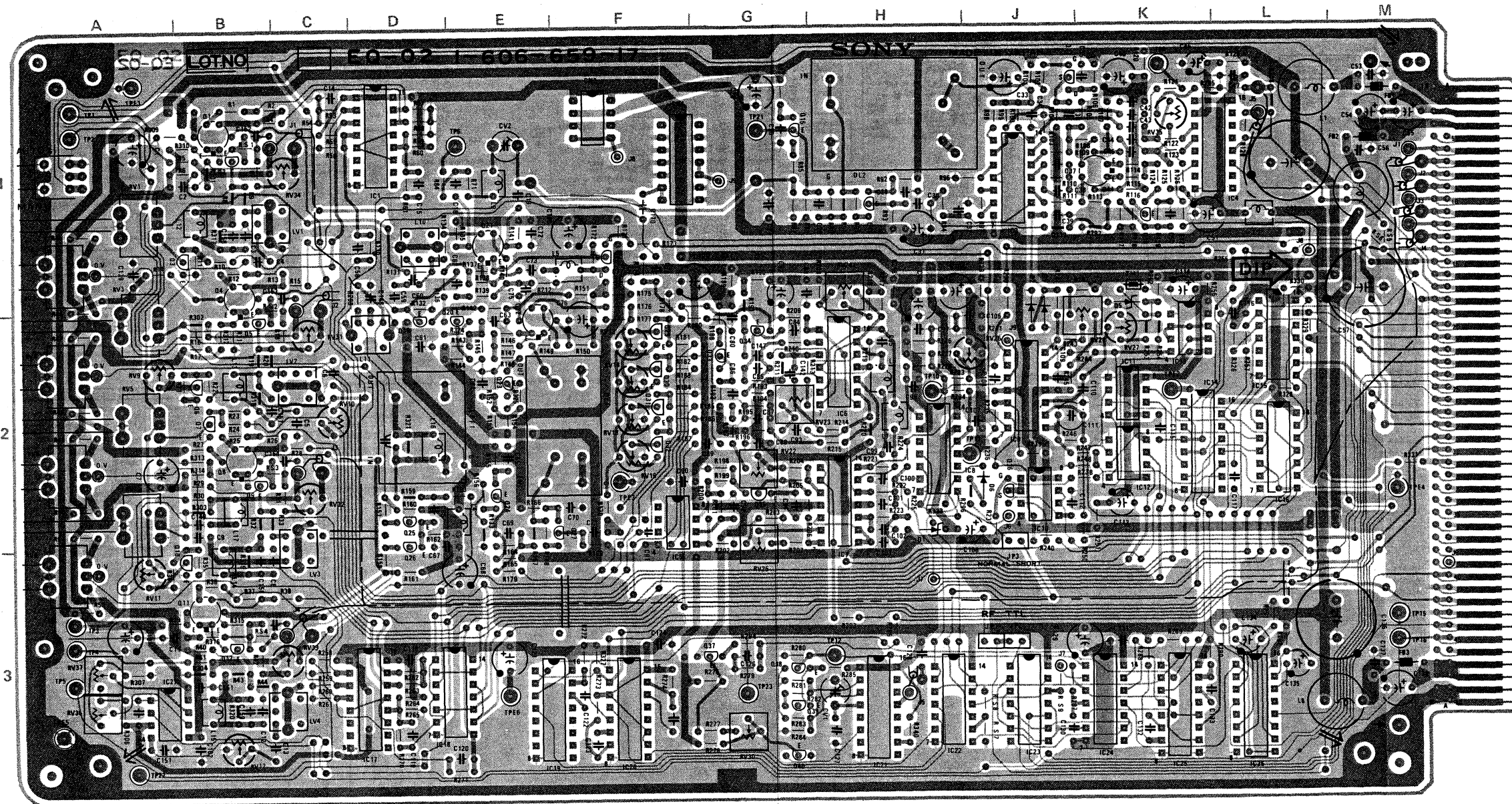
DP RV6

EQ (VI) RV7

DG RV8

EQ (SI) RV9

3



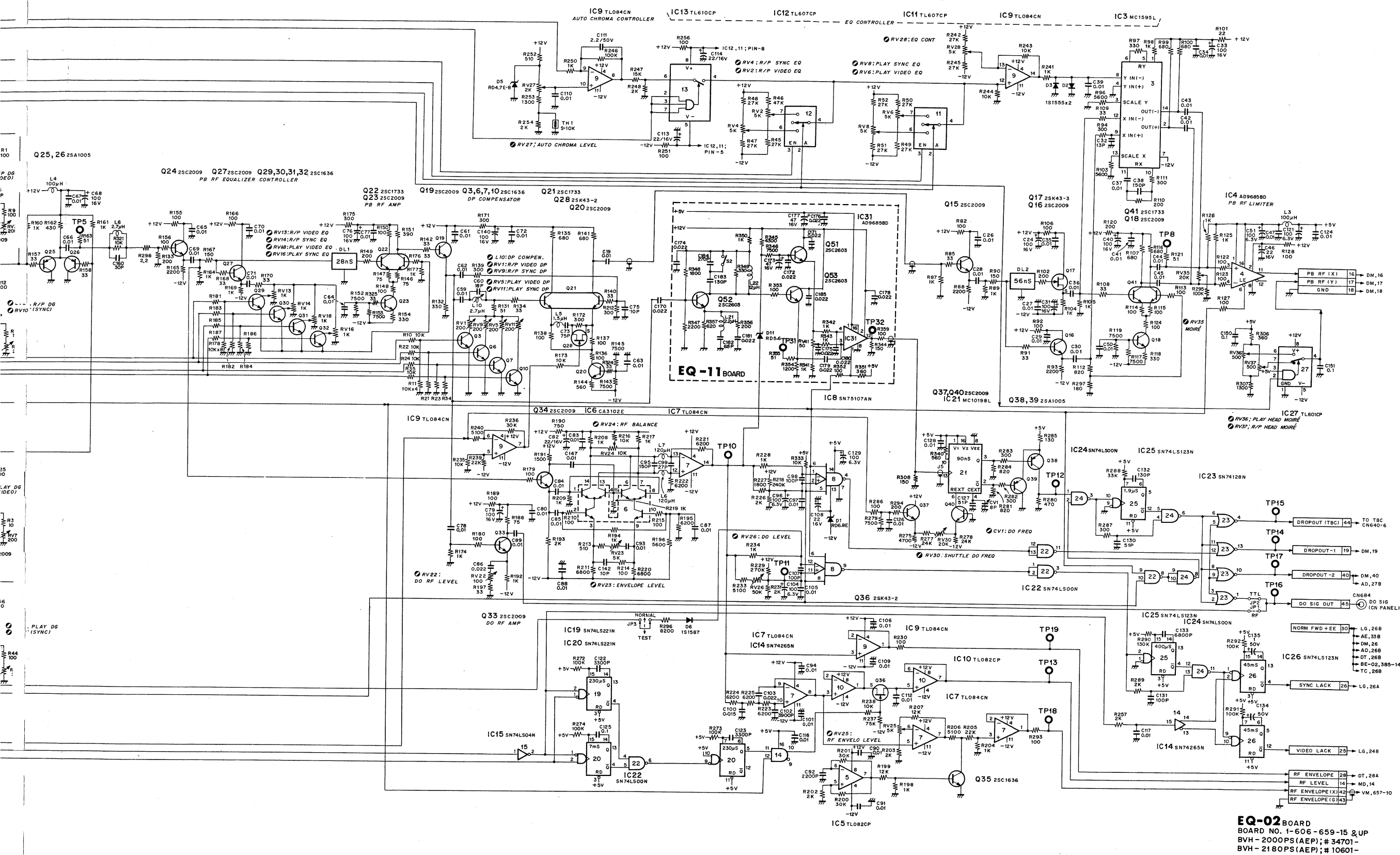
1-606-659-17 COMPONENT SIDE

1-606-659-17 SOLDER SIDE

EQ-02 (1-606-659-16 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

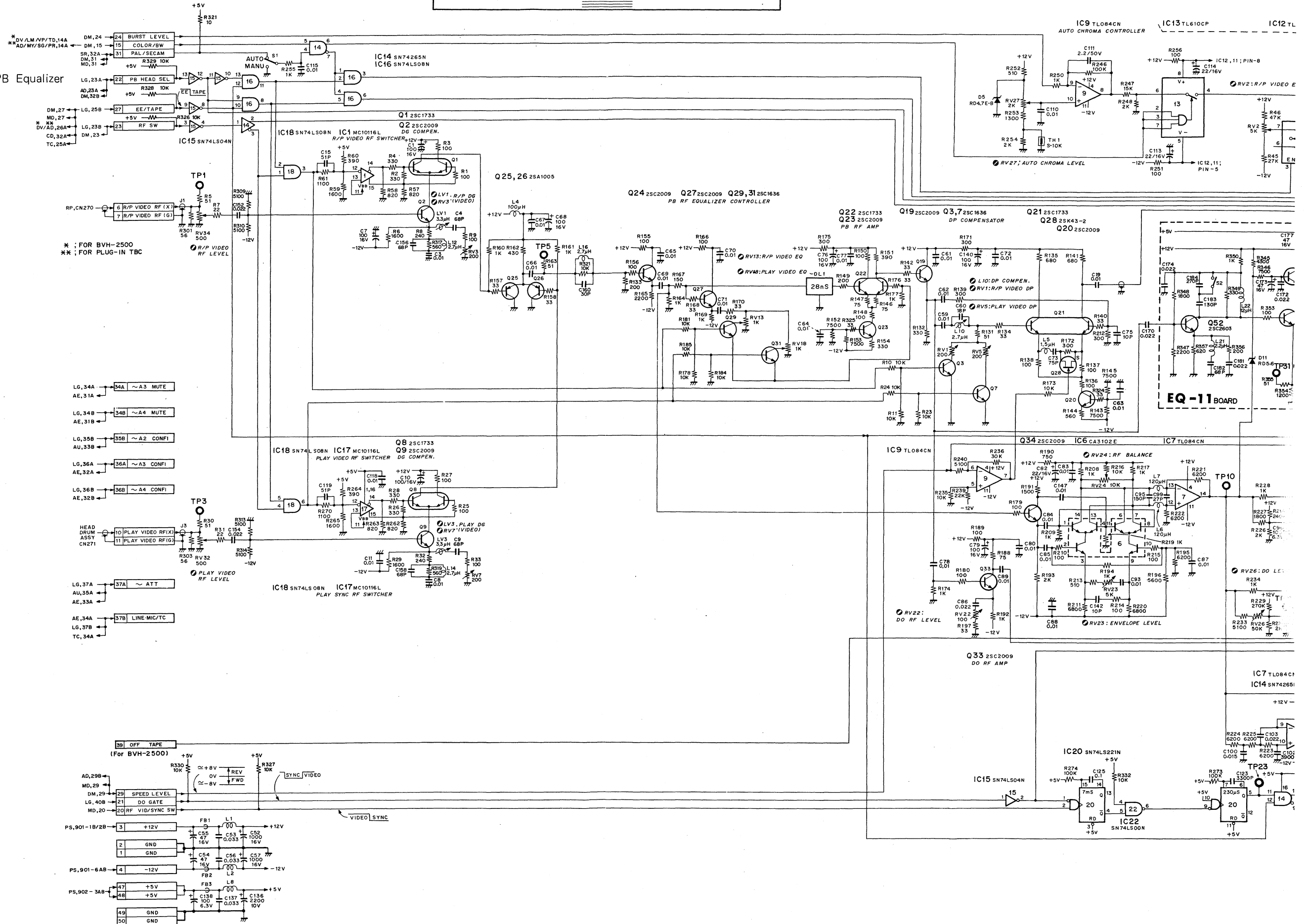
CV1	3H	Q30	2F
		Q31	2F
	(NTSC,PM)	Q32	2F
CV2	1E	Q33	2G
		Q34	2G
D1	2H	Q35	2G
D2	2J	Q36	2J
D3	2J	Q37	3G
D5	2K	Q38	3G
D6	2J	Q39	3G
		Q40	3G
		Q41	1K
DL1	2F	RV1	1A
DL2	1H	RV2	1A
		RV3	2A
IC1	1D	RV4	2A
IC3	1J	RV5	2A
IC4	1L	RV6	2A
IC5	2F	RV7	2A
IC6	2H	RV8	3A
IC7	2H	RV9	2A
IC8	2H	RV10	2C
IC9	2J	RV11	3A
IC10	2J	RV12	3B
IC11	2K	RV13	2F
IC12	2K	RV14	2F
IC13	2K	RV15	2F
IC14	2L	RV16	2F
IC15	2L	RV17	2F
IC16	2L	RV18	2F
IC17	3D	RV19	2G
IC18	3D	RV20	2G
IC19	3E	RV21	1H
IC20	3F	RV22	2G
IC21	3H	RV23	2J
IC22	3H	RV24	2K
IC23	3J	RV25	2K
IC24	3K	RV26	3G
IC25	3K	RV27	3C
IC26	3L	RV28	3C
		RV29	1C
		RV30	1K
(PS/P)		RV31	3A
IC27	3B	RV32	3A
		RV33	3A
JP1	3J	RV34	3A
JP2	3J	RV35	3A
JP3	2J	RV36	3A
		RV37	3A
LV1	1C	S1	1A
LV2	2C	TH1	1K
LV3	2C		
LV4	3C	TP1	1A
		TP2	1A
Q1	1B	TP3	3A
Q2	1B	TP4	3A
Q3	1B	TP5	3A
Q4	1B		
Q5	2B		
Q6	2B	(NTSC,PM)	
Q7	2B	TP6	1E
Q8	2B		
Q9	2B	TP8	1K
Q10	3B	TP10	2H
Q11	3B	TP11	2J
Q12	3B	TP12	3H
Q13	3B	TP13	3H
Q14	1G	TP14	3H
Q15	1G	TP15	3H
Q16	1H	TP16	3H
Q17	1J	TP17	1G
Q18	1K	TP18	3A
Q19	2D	TP19	3G
Q20	2E		
Q21	1E	TPE1	1A
Q22	2E	TPE2	2K
Q23	2E	TPE3	2F
Q24	2E	TPE4	2H
Q25	2D	TPE5	3A
Q26	2D	TPE6	3E
Q27	2E		
Q28	1F		
Q29	2F		

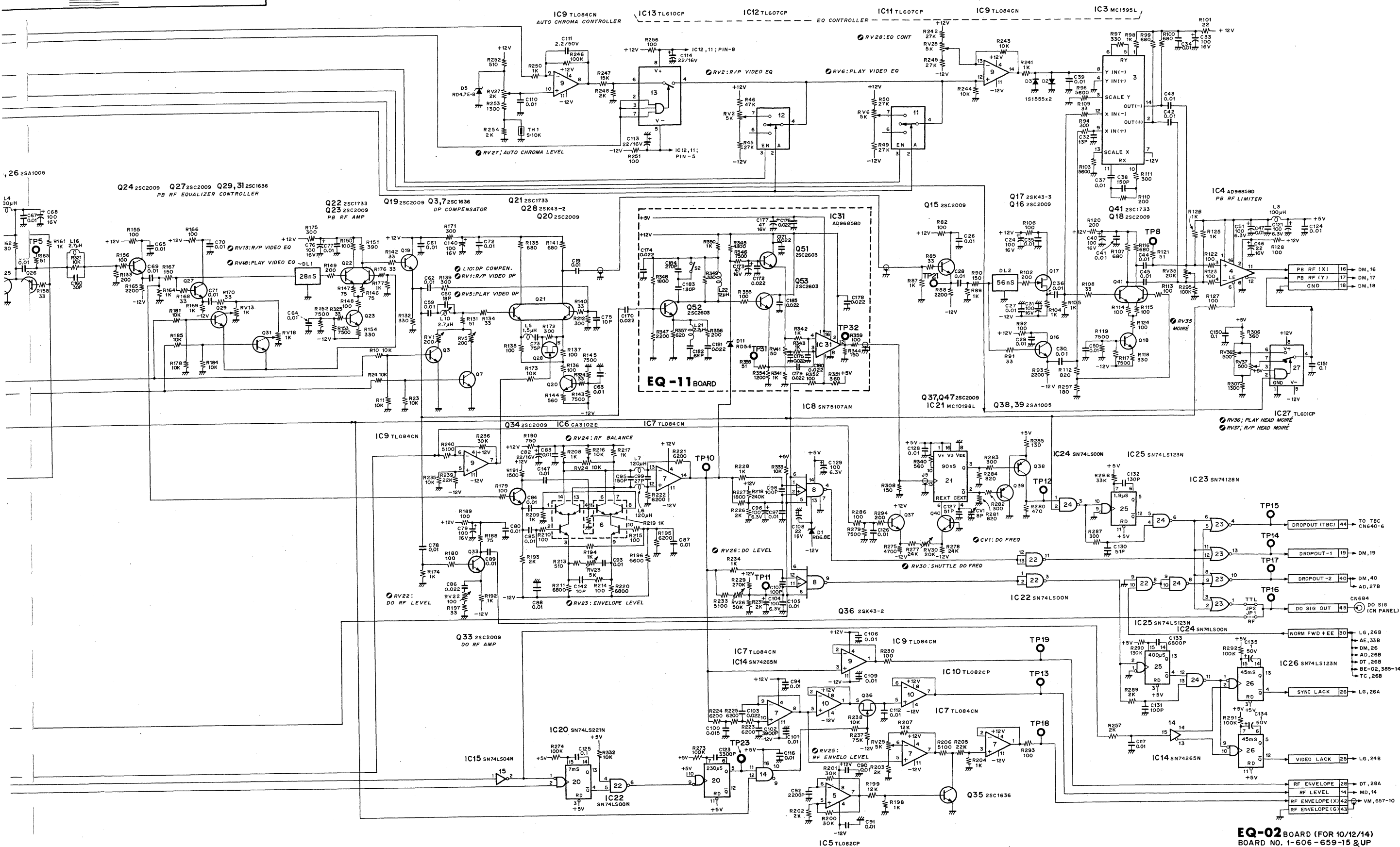


EQ-02 BOARD
BOARD NO. 1-606-659-15 & UP
BVH-2000PS(AEP); # 34701-
BVH-2180PS(AEP); # 10601-

EQ-02 BOARD

Video/Sync PB Equalizer





EQ-02 BOARD (FOR 10/12/14)
BOARD NO. 1-606-659-15 & UP
BVH-2000PS(AEP);# 34701-

CARD RACK DM-25

1-606-661-14

2000PS; #22301 - 33799
2180PS; #10001 - 10199
2500P; #10001 - 10599

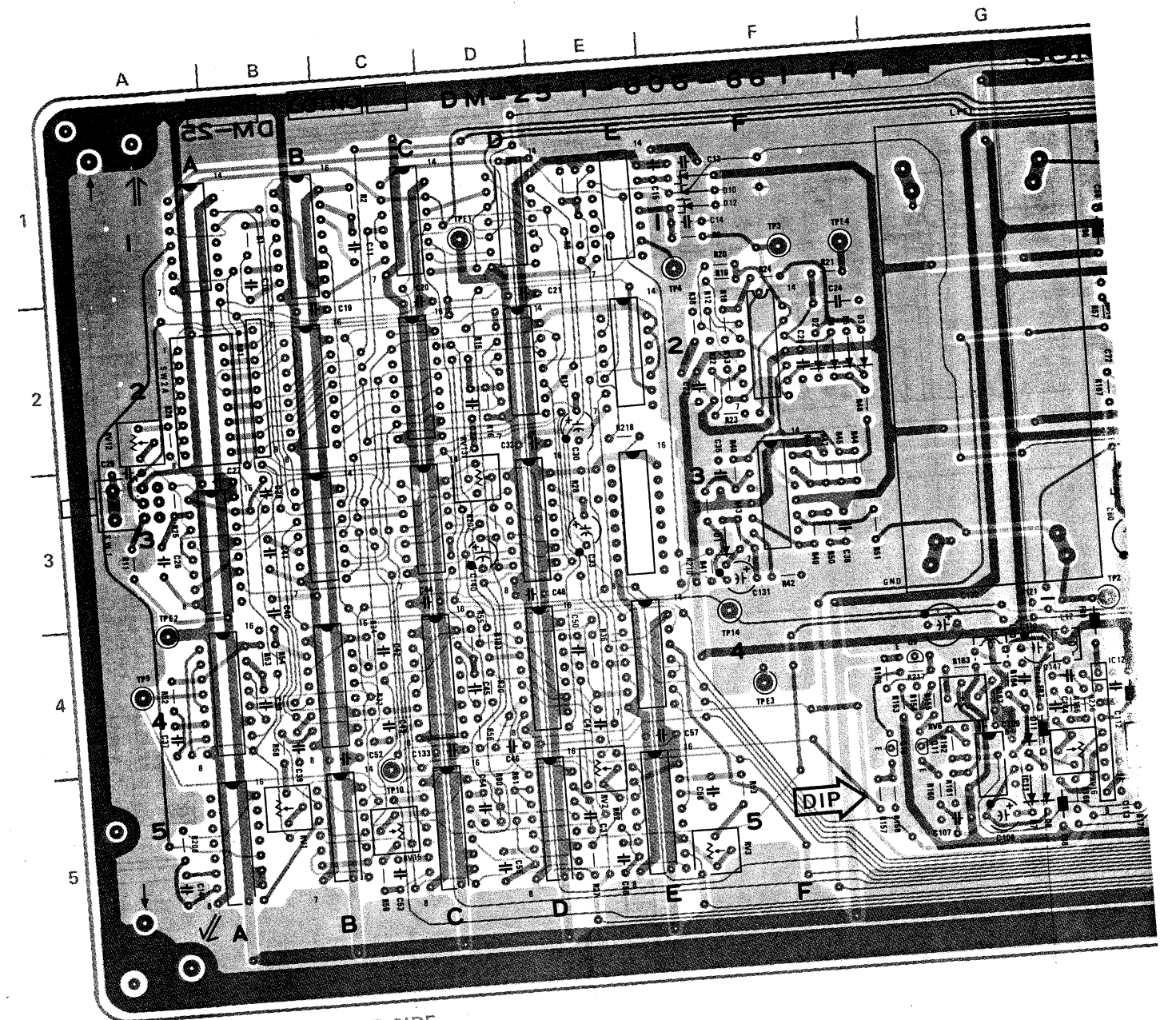
2500(J); #10201 - 10999
2500(U/C); #10201 - 11599

DM-25 BOARD (1-606-661-14)
Component Side

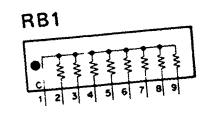
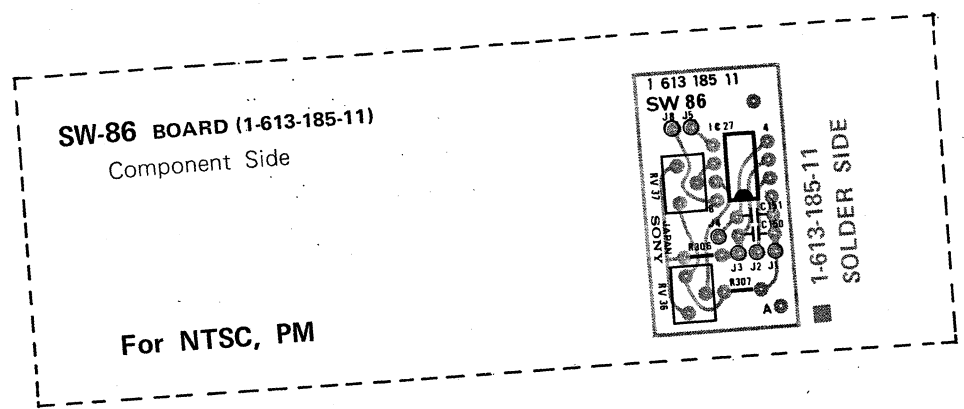
2000PS; #22301 - 33799
2180PS; #10001 - 10199
2500P; #10001 - 10599
2500(J); #10201 - 10999
2500(U/C); #10201 - 11599
1-606-661-14

CARD RACK DM-25 DM

DM-25
WHITE REF
ON OFF SW1
4



1-606-661-14 COMPONENT SIDE



2000PS; #22301 - 33799 2500(J); #10201 - 10999 1-606-661-14
2180PS; #10001 - 10199 2500(U/C); #10201 - 11599
2500P; #10001 - 10599

CARD RACK DM-25

DM-25 CARD RACK

1-606-661-14

2000PS; #22301 - 33799
2180PS; #10001 - 10199
2500P; #10001 - 10599

2500(J); #10201 - 10999
2500(U/C); #10201 - 11599

C-24

C-23

C-22

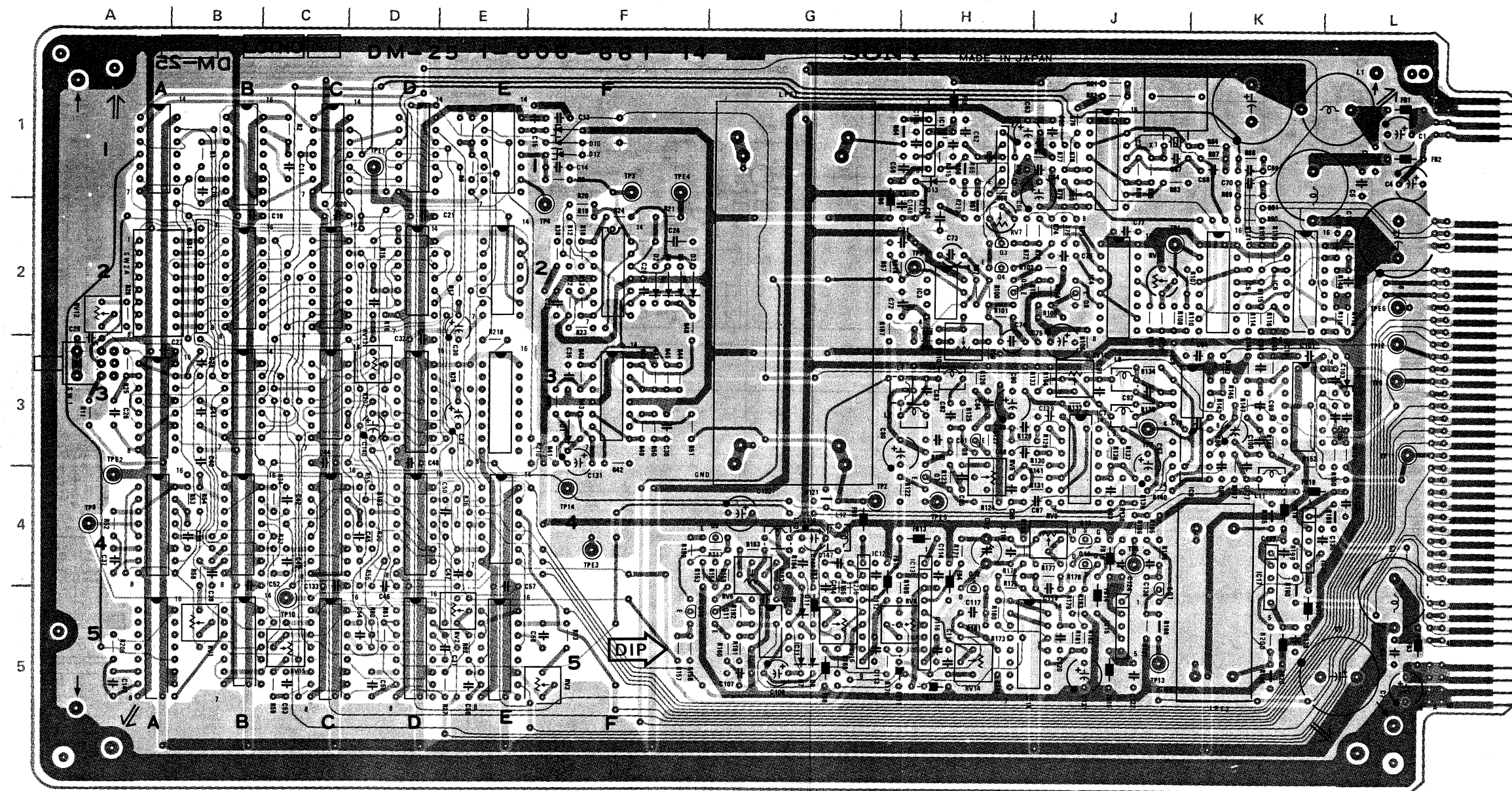
BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/PS/PM

DM-25

WHITE REF

ON OFF

4



1-606-661-14 COMPONENT SIDE

1-606-661-14 SOLDER SIDE

DM-25 (1-606-661-14)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CV2 4H	05 2H
D1 3F	06 2J
D2 2F	07 4H
D3 2F	08 3H
D4 2F	09 4G
D5 2F	010 5F
D6 3L	011 5G
D7 5G	012 4H
D8 5G	013 4J
D9 1F	014 4J
D10 1F	015 1H
D11 5G	RB1 2B
D12 1F	RV1 5B
D13 1H	RV2 5E
IC1 1H	RV3 5F
IC1A	RV4 2J
IC1B	RV5 4H
IC1C	RV6 4G
IC1D	RV7 2H
IC1E	RV8 5H
IC2 1J	RV9 4J
IC2B	RV10 3H
IC2C	RV11 3A
IC2D	RV12 2A
IC2E	RV13 3D
IC2F	RV14 5H
IC3 2H	RV15 5C
IC3A	RV16 5G
IC3B	RV17 2J
IC3C	
IC3D	(SW-86 BOARD)
IC3F	RV36 1A
IC4 2J	RV37 1A
IC4A	
IC4B	SW1 3A
IC4C	SW2A
IC4D	
IC4E	TP1 2J
IC5 2K	TP2 4G
IC5A	TP3 1F
IC5B	TP4 1F
IC5C	TP5 2H
IC5D	TP6 4J
IC5E	TP7 3J
IC6 2K	TP8 3L
IC7 3J	TP9 4A
IC8 3K	TP10 5C
IC9 3K	TP11 3L
IC10 3K	TP12 3L
IC11 5G	TP13 5J
IC12 5G	TP14 4F
IC13 5H	
IC14 5J	(SW-86 BOARD)
IC15 5J	TPA 2A
IC16 4K	
IC17 4K	
(SW-86 BOARD)	
IC27 1A	TPE1 1D
	TPE2 4A
	TPE3 4F
	TPE4 1F
	TPE5 4H
	TPE6 2L
Q1 4J	
Q3 2H	X1 1J
Q4 2H	

C-27(4/
C-24

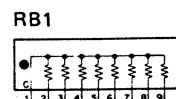
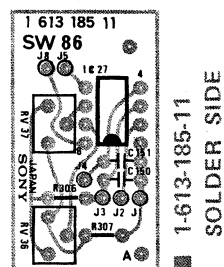
C-27(3/13)
C-23

C-27(2/13)
C-22

BVH-2500
BVH-2500P

C-23

C-24



2000PS; #22301 - 33799
2180PS; #10001 - 10199
2500P; #10001 - 10599

2500(J); #10201 - 1-606-661-14
2500(U/C); #10201 -

CARD RACK DM-25

DM-25 CARD RACK

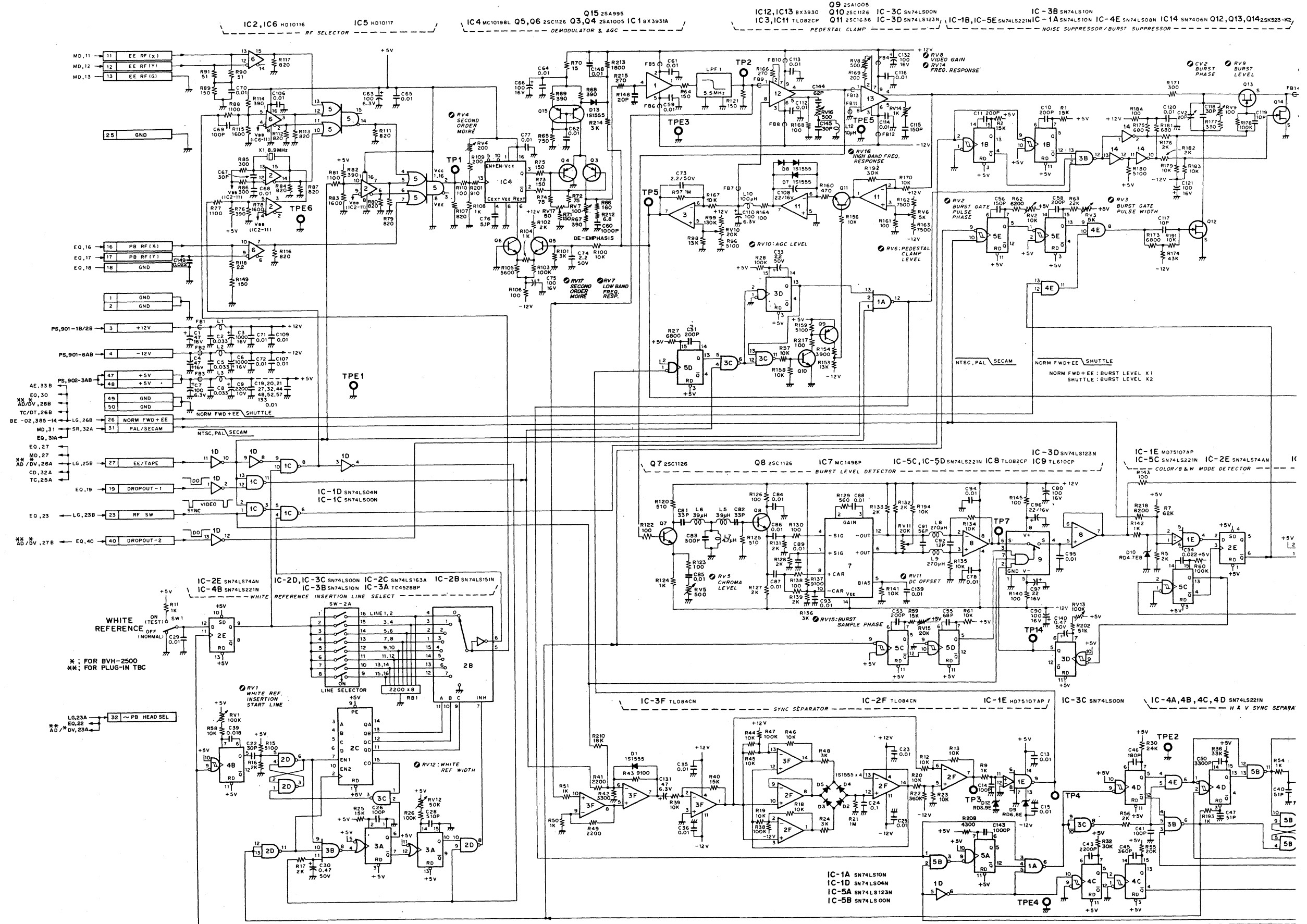
1-606-661-14

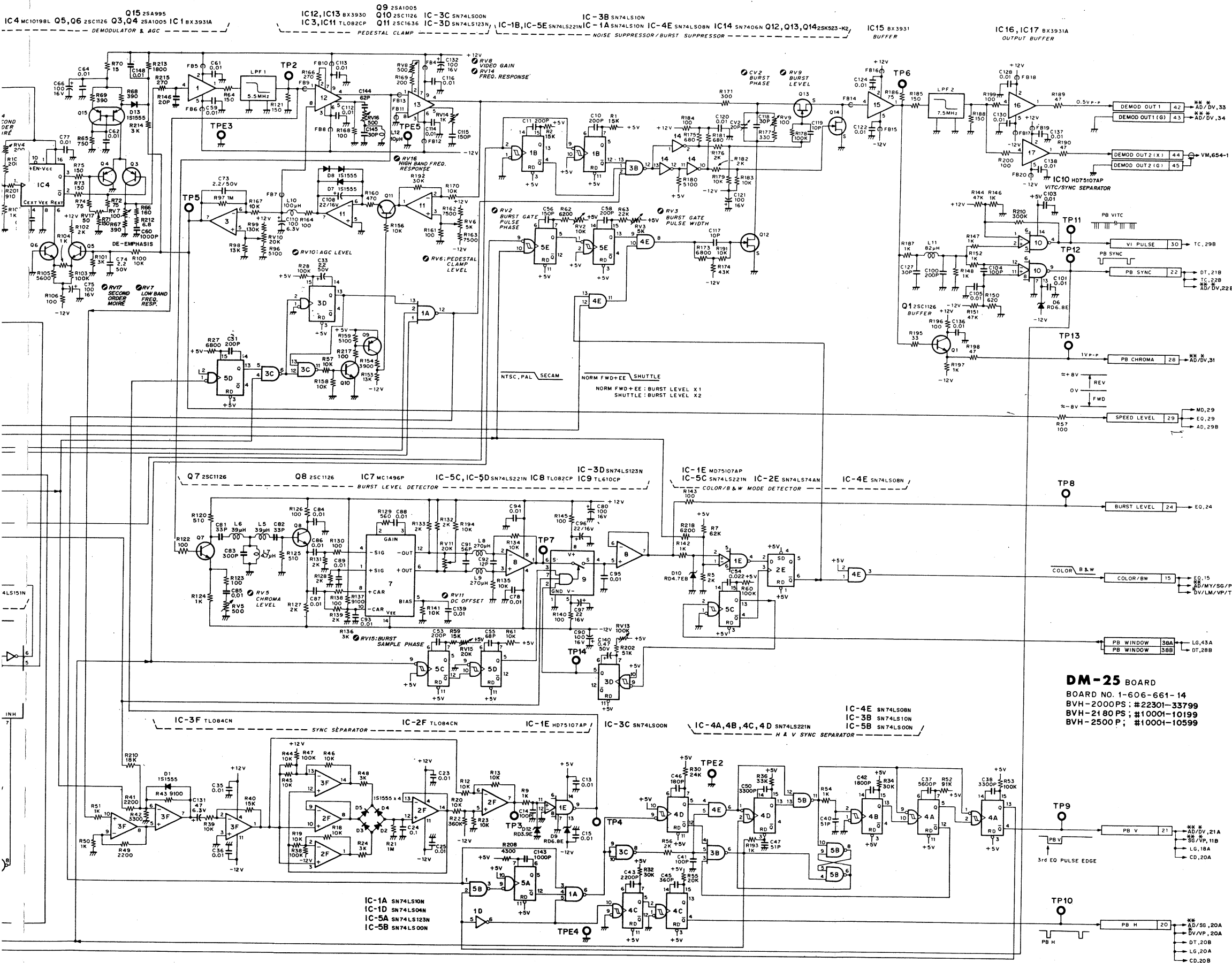
2000PS; #22301 - 33799
2180PS; #10001 - 10199
2500P; #10001 - 10599

2500(J); #10201 -
2500(U/C); #10201 -

DM-25 BOARD

Video Demodulator





C-27(3/13)

2000PS; #33801 - 34399 1-606-661-14
2180PS; #10201 - 10599
2500P; #10601 - 10699

CARD RACK DM-25

DM-25 CARD RACK

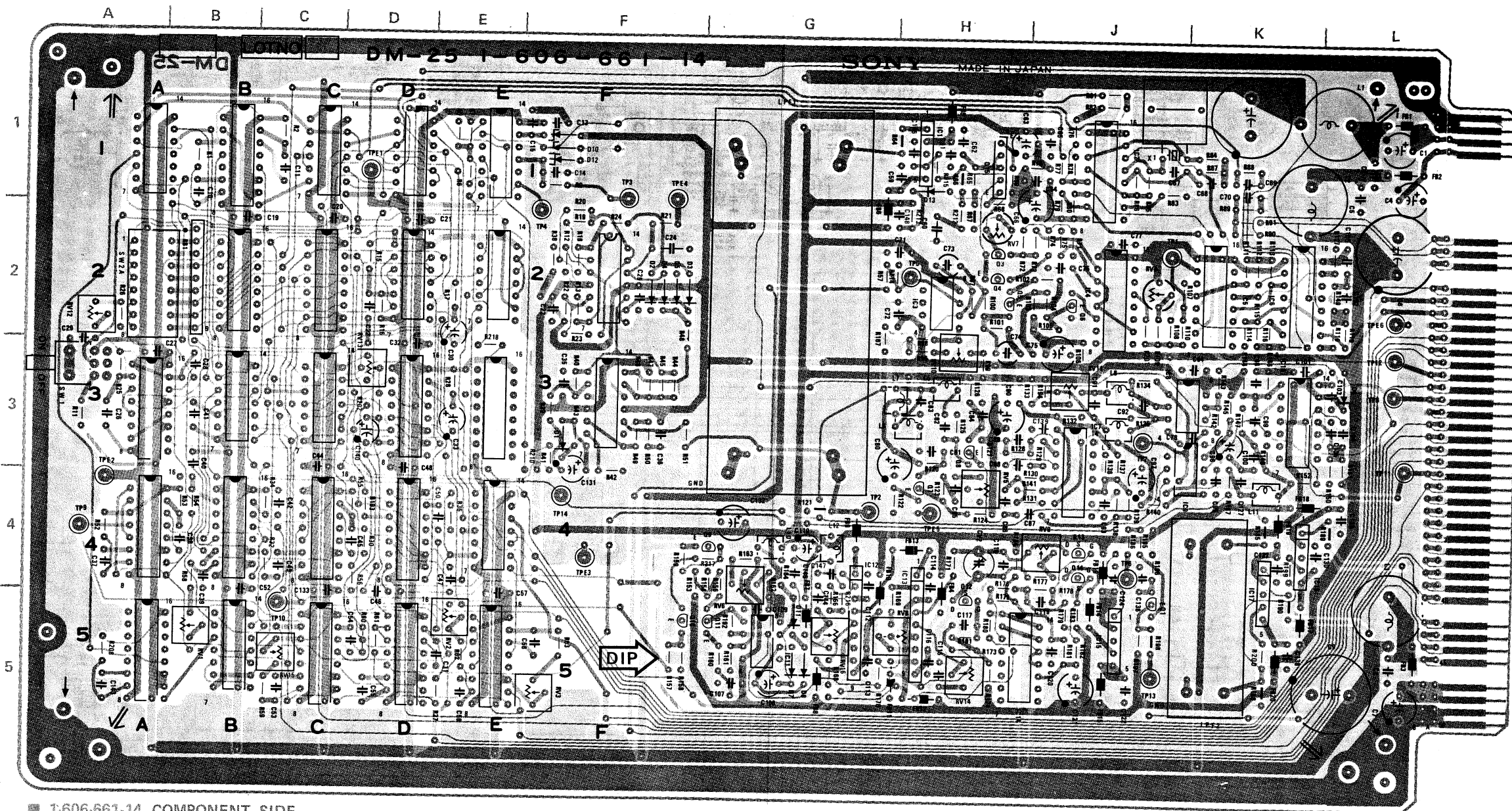
1-606-661-14

2000PS; #33801 - 34399
2180PS; #10201 - 10599
2500P; #10601 - 10699

1-25 BOARD (1-606-661-14)

Component Side

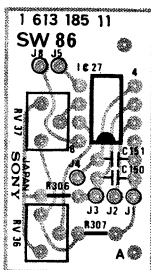
BVH-2000PS



DM-25 (1-606-661-14)

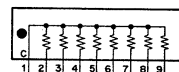
BVH-2000PS
BVH-2180PS
BVH-2500P

CV2	4H	O5	2H
D1	3F	O6	2J
D2	2F	O7	4H
D3	2F	O8	3H
D4	2F	O9	4G
D5	2F	O10	5F
D6	3L	O11	5G
D7	5G	O12	4H
D8	5G	O13	4J
D9	1F	O14	4J
D10	1F	O15	1H
D11	5G	RB1	2B
D12	1F		
D13	1H	RV1	5G
IC1	1H	RV2	5E
IC1A		RV3	5F
IC1B		RV4	2J
IC1C		RV5	4H
IC1D		RV6	4G
IC1E		RV7	2H
IC2	1J	RV8	5H
IC2B		RV9	4J
IC2C		RV10	3H
IC2D		RV11	3J
IC2E		RV12	2A
IC2F		RV13	3D
IC3	2H	RV14	5H
IC3A		RV15	5C
IC3B		RV16	5G
IC3C		RV17	2J
IC3D		RV501	6C
IC3F		RV502	6D
IC4	2J	RV503	6E
IC4A		(SW-86 BOARD)	
IC4B		RV36	1A
IC4C		RV37	1A
IC4D			
IC4E		SW1	3A
IC5	2K	SW2A	
IC5A			
IC5B		TP1	2J
IC5C		TP2	4G
IC5D		TP3	1F
IC5E		TP4	1F
IC6	2K	TP5	2H
IC6B		TP6	4J
IC6C		TP7	3J
IC6D		TP8	3L
IC6E		TP9	4A
IC7	3J	TP10	5C
IC7B		TP11	3L
IC7C		TP12	3L
IC7D		TP13	5J
IC7E		TP14	4F
IC8	3K		
IC8B		(SW-86 BOARD)	
IC8C		TPA	2A
IC8D			
IC9	3K	TP501	8A
IC9B		TP502	8A
IC9E		TP503	8A
IC10	3K	TP504	9A
IC11	5G	TP505	9A
IC12	5G	TP506	9A
IC13	5H		
IC14	5J	TPE1	1D
IC15	5J	TPE2	4A
IC16	4K	TPE3	4F
IC17	4K	TPE4	1F
		TPE5	4H
		TPE6	2L
(SW-86 BOARD)			
IC27	1A	X1	1J
J501	8B		
J502	8B		
J503	8B		
Q1	4J		
Q3	2H		
Q4	2H		



1-613-185-11
SOLDER SIDE

RB1



C-27(3/13)

1-606-661-14 SOLDER SIDE

C-27(4/13)

BVH-2500P

C-27(4/13)

C-27(3/13)

C-27(2/13)

BVH-2000PS

C-27(7/1)

C-27(6/13)

C-27(5/13)

BVH-2500P

2000PS; #33801 - 34399
2180PS; #10201 - 10599
2500P; #10601 - 10699

1-606-661-14

CARD RACK DM-25

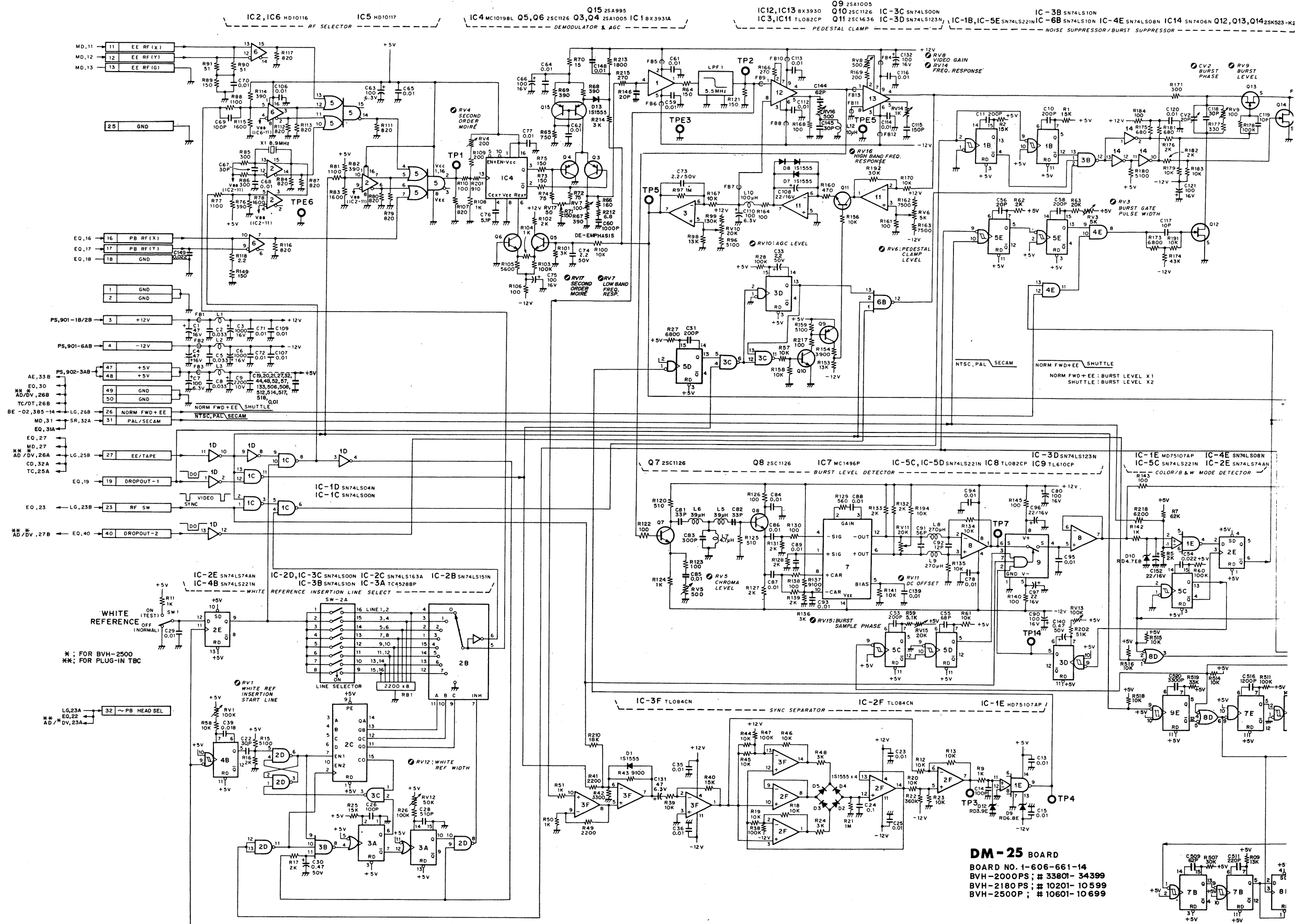
DM-25 CARD RACK

1-606-661-14

2000PS; #33801 - 34399
2180PS; #10201 - 10599
2500P; #10601 - 10699

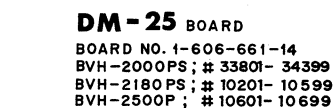
DM-25 BOARD

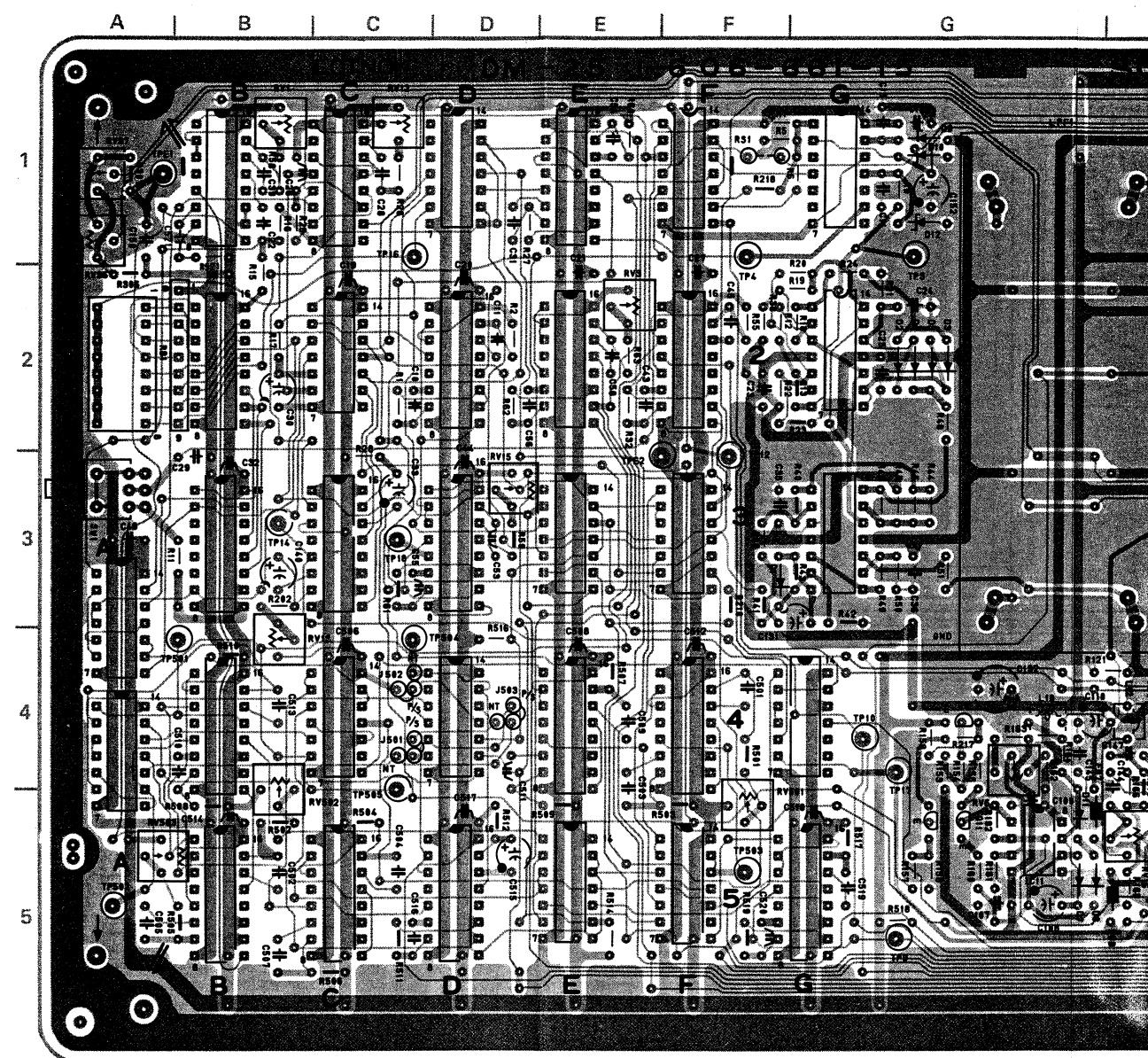
Video Demodulator



C-27(5/13)

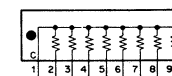
C-27(6/13)



DM-25 BOARD (1-606-661-15)
Component Side**DM**
-25WHITE
REFON
OFF**4**

■ 1-606-661-15 COMPONENT SIDE

RB1

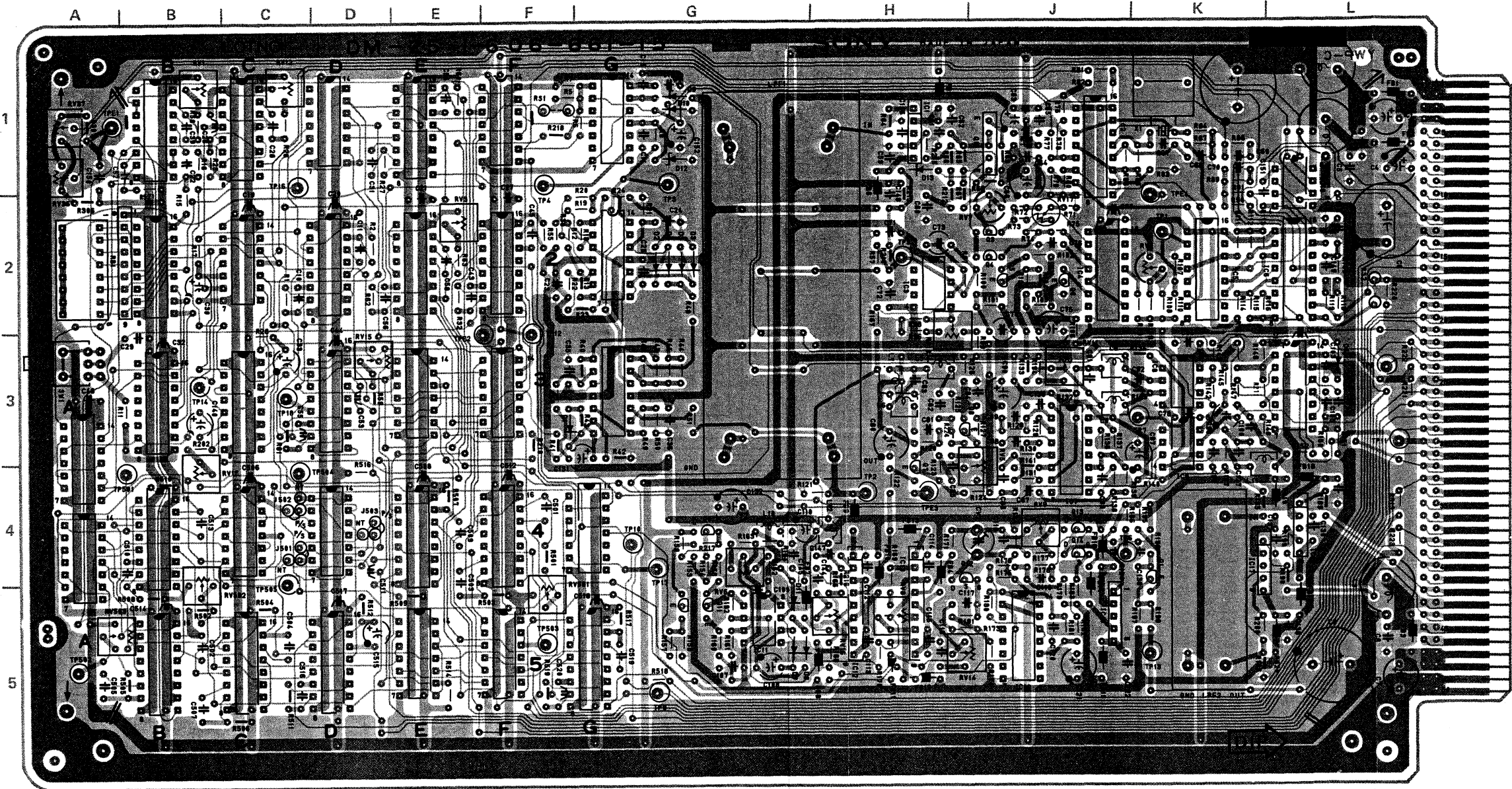


DM-25

WHITE REF

ON OFF

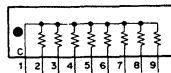
4



1-606-661-15 COMPONENT SIDE

1-606-661-15 SOLDER SIDE

RB1



DM-25 (1-606-661-15 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CV2 4J
D1 3F
D2 2G
D3 2G
D4 2G
D5 2G
D6 3L
D7 5G
D8 5G
D9 1G
D10 1G
D11 5G
D12 1G
D13 1H
Q5 2J
Q6 2J
Q7 4H
Q8 3H
Q9 4G
Q10 5G
Q11 5G
Q12 4H
Q13 4J
Q14 4J
Q15 1J
RB1 2B

RV1 1B
RV2 2E
RV3 2K
RV4 4J
RV5 4G
RV6 4G
RV7 2J
RV8 5H
RV9 4J
RV10 3H
RV11 3J
RV12 2C
RV13 4B
RV14 5H
RV15 3D
RV16 5H
RV17 2J
RV18 1A
RV19 1A
RV20 1A
RV21 5F
RV22 4B
RV23 5A

IC1 1H
IC18 1H
IC1C
IC1D
IC1E
IC1F
IC1G
IC2 1J
IC2B
IC2C
IC2D
IC2E
IC2F
IC2G
IC3 2H
IC3A
IC3B
IC3C
IC3D
IC3E
IC3F
IC3G
IC4 2J
IC4A
IC4B
IC4C
IC4D
IC4E
IC4F
IC4G
IC5 2K
IC5B
IC5C
IC5D
IC5E
IC5F
IC5G
IC6 2L
IC7 3J
IC8 3K
IC9 3K
IC10 3L
IC11 5G
IC12 5H
IC13 5H
IC14 5J
IC15 5J
IC16 4L
IC17 4K
IC18 2L

SW1 3A
SW2A

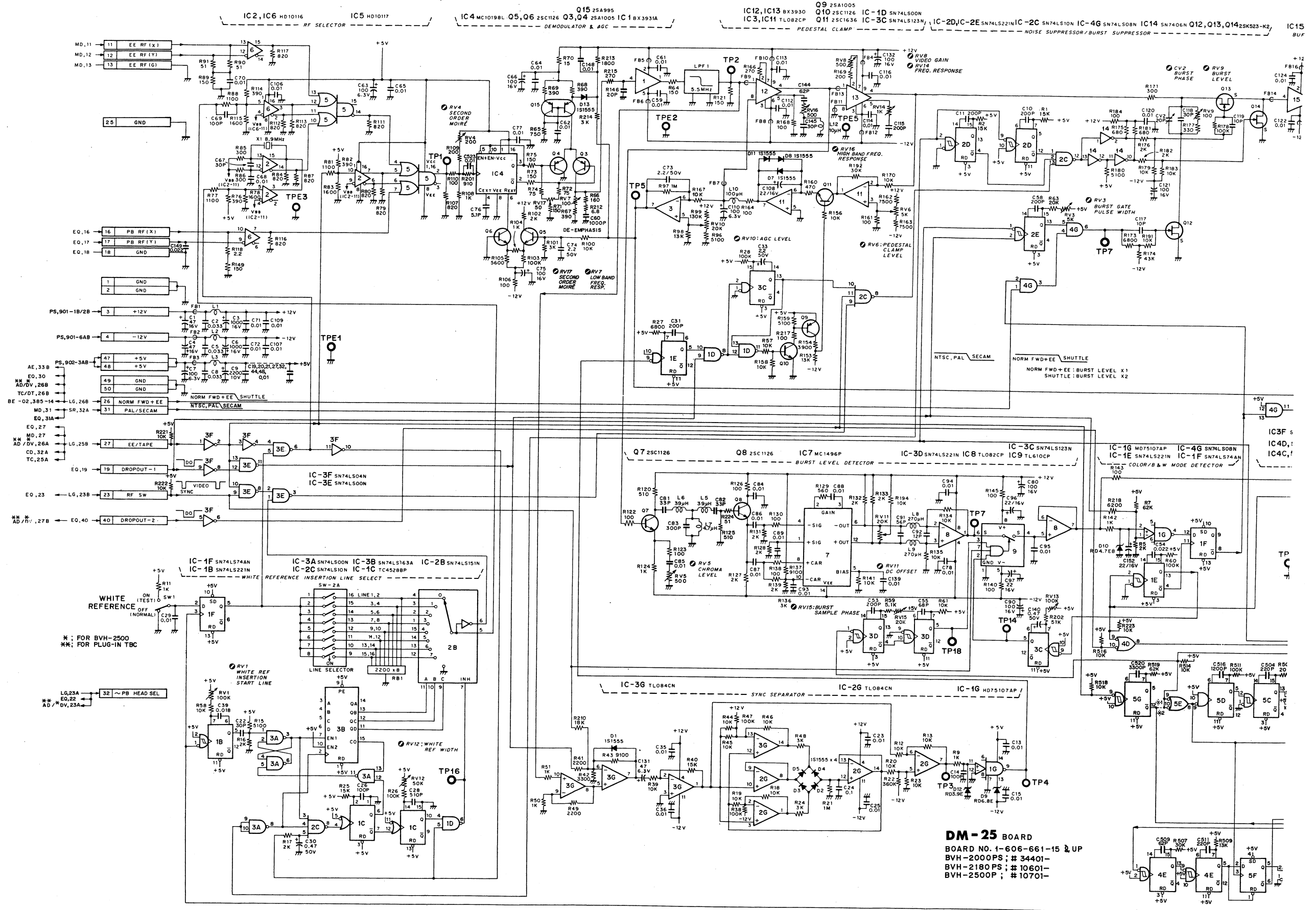
TP1 2K
TP2 4H
TP3 1G
TP4 1F
TP5 2H
TP6 4J
TP7 3K
TP8 3L
TP9 5G
TP10 4G
TP11 3L
TP12 3F
TP13 5K
TP14 3B
TP15 2C
TP16 4G
TP17 4G
TP18 3C
TP19 4B
TP20 5A
TP21 5F
TP22 4C
TP23 4C
TP24 1K

X1 1J

Q1 4K
Q2 2J
Q3 2J
Q4 2J

DM-25 BOARD

Video Demodulator



2, 1A MODEL)

MD-14

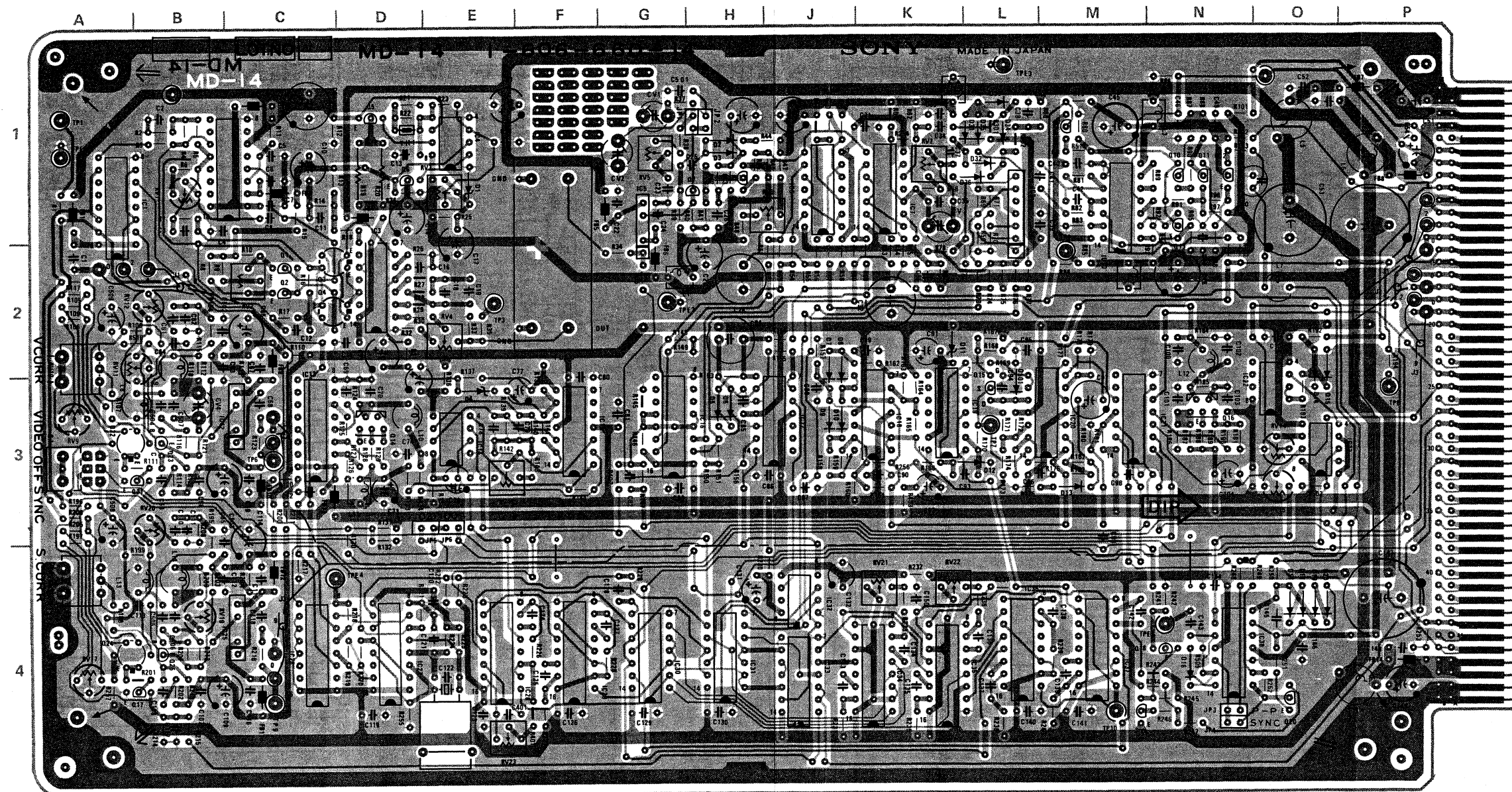
RE
CUR
(V)METER
RF (V)
INPUT
RF (S)

NS

MD-14

REC
CUR
(V)METER
RF (V)
INPUT
RF (S)REC
CUR
(S)

5



1-606-660-14 COMPONENT SIDE

1-606-660-14 SOLDER SIDE

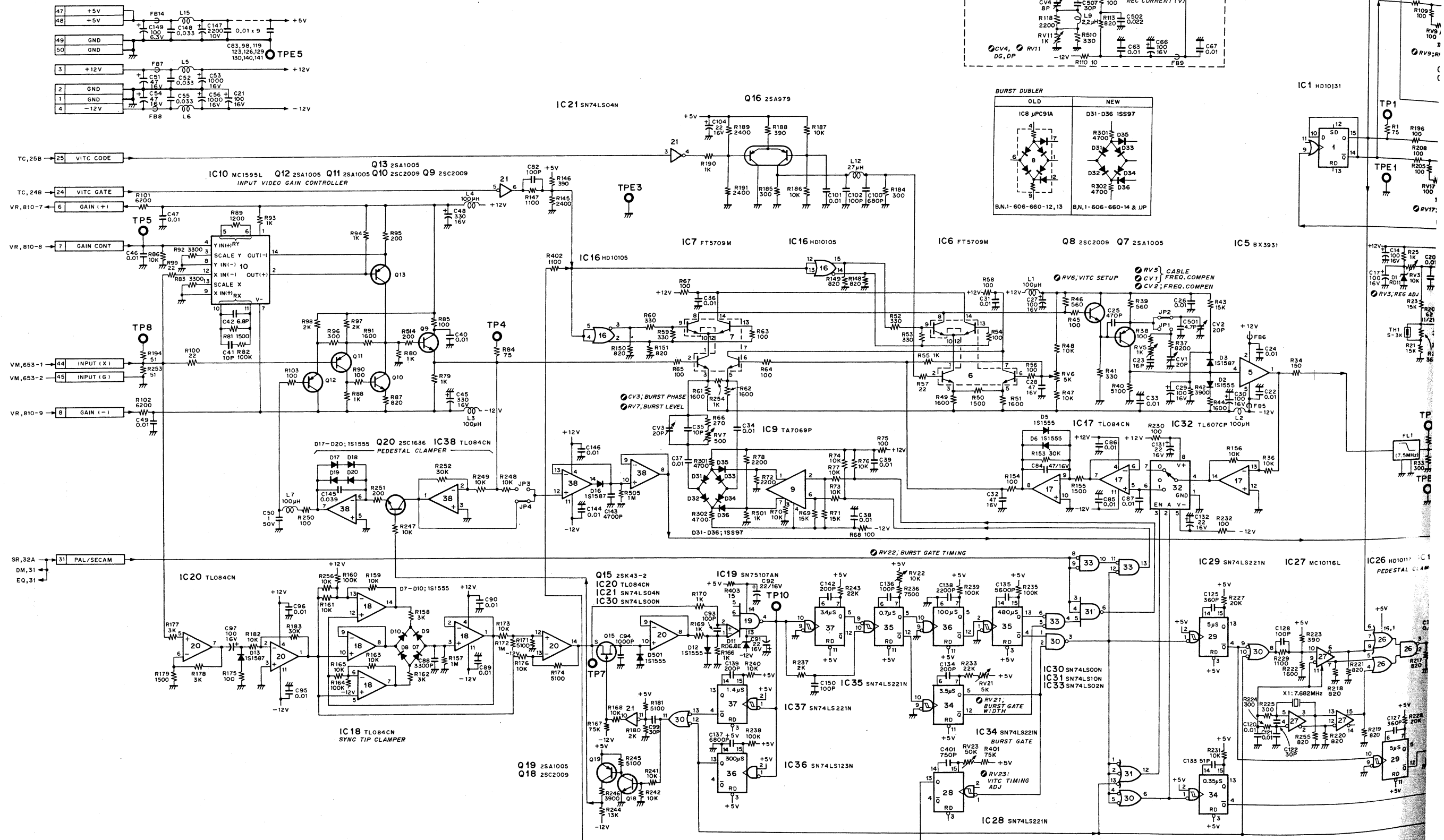
MD-14 (1-606-660-14 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM

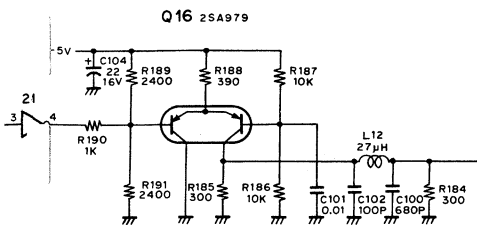
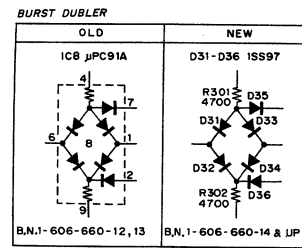
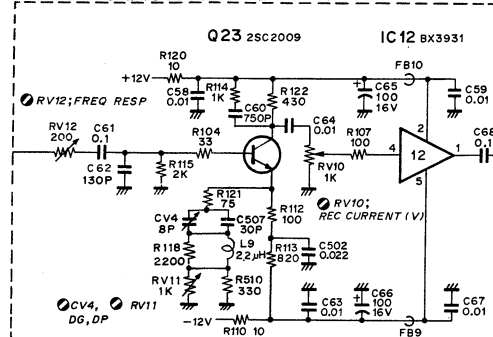
CV1	1G	Q1	2C
CV2	1G	Q2	2C
CV3	1K	Q3	2C
(PS)		Q4	2C
CV4	3B	Q5	1D
		Q6	1D
		Q7	1H
D1	1E	Q8	1H
D2	1H	Q9	1H
D3	1H	Q10	1H
D4	3E	Q11	1H
D5	3H	Q12	1H
D6	3H	Q13	1H
D7	3J	Q14	3D
D8	3J	Q15	3L
D9	3J	Q16	3H
D10	3J	Q17	4B
D11	2K	Q18	4H
D12	3L	Q19	4H
D13	3H	Q20	4P
D14	3P	Q21	3B
D15	3P	Q22	3A
D16	4N	Q23	3B
D17	4P	Q24	4A
D18	4P	Q25	4B
D19	4P		
D20	4P	RV1	1B
D31	1L	RV2	2C
D32	1L	RV3	1E
D33	1L	RV4	2E
D34	1L	RV5	1G
D35	1L	RV6	1J
D36	1L	RV7	1K
D501	3L	RV9	3A
		RV10	2A
IC1	1A	RV11	2B
IC2	1B	RV12	2B
IC3	2D	RV13	3E
IC4	1E	RV14	3P
IC5	1G	RV15	3P
IC6	1J	RV17	4A
IC7	1K	RV18	4A
IC9	1L	RV19	4B
IC10	1M	RV20	3B
IC12	3C	RV21	4K
IC13	3C	RV22	4K
IC14	3E	RV23	4E
IC15	3F		
IC16	3G	S1	3A
IC17	3J		
IC18	3K	TH1	1D
IC19	3K		
IC20	3M	TP1	1A
IC21	3M	TP2	1B
IC22	3P	TP3	2E
IC23	3P	TP4	2M
IC25	4C	TP5	1P
IC26	4C	TP6	3C
IC27	4D	TP7	3L
IC28	4E	TP8	3O
IC29	4F	TP9	4C
IC30	4G	TP10	4H
IC31	4H		
IC32	4J	TPE1	1A
IC33	4J	TPE2	2G
IC34	4K	TPE3	1L
IC35	4K	TPE4	4C
IC36	4L	TPE5	4N
IC37	4M		
IC38	4N	X1	4E
JP1	1H		
JP2	1H		
JP3	4N		
JP4	4N		
JP5	3E		
JP6	3E		

MD-14 BOARD

Video Modulator



OLD UP TO #34999 (BVH-2000PS)
UP TO #10699 (BVH-2180PS)

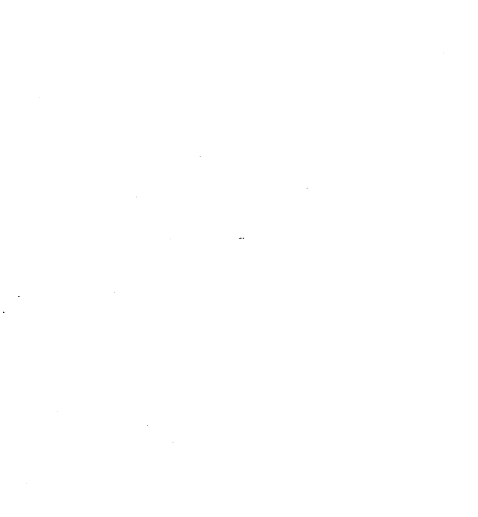
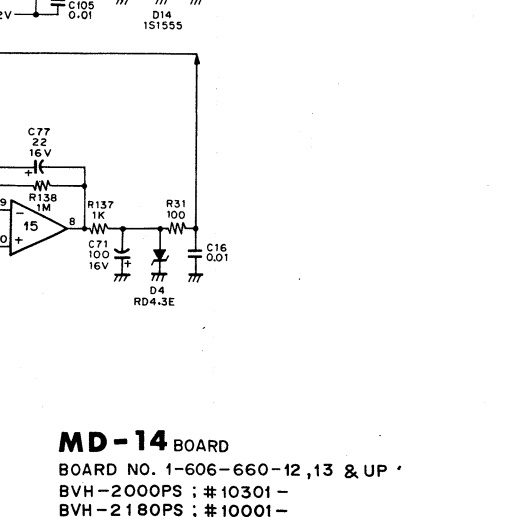
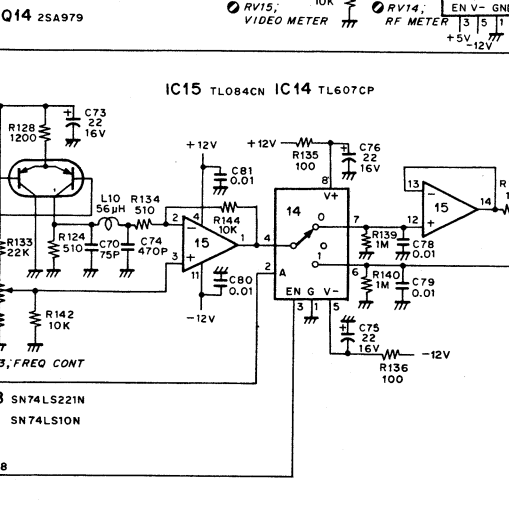
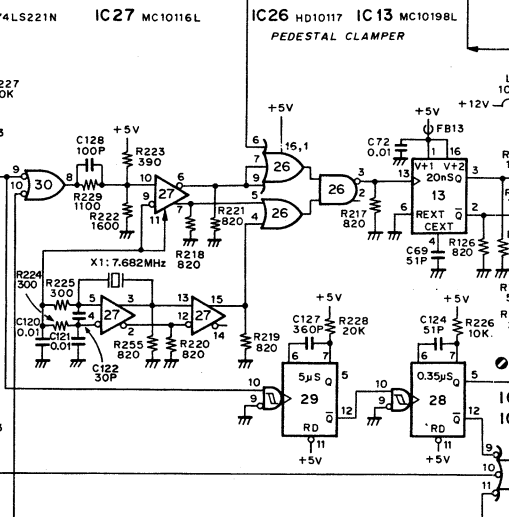
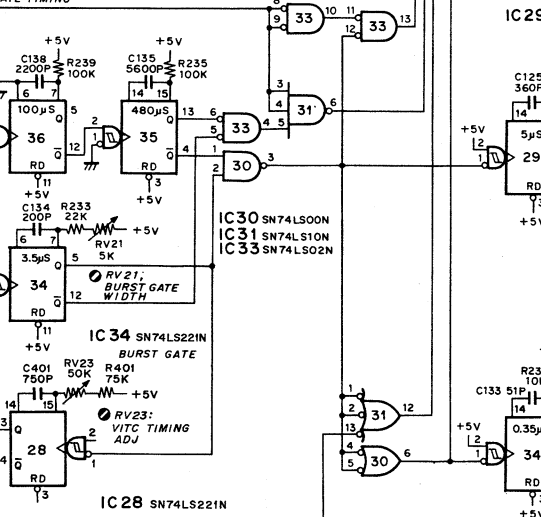
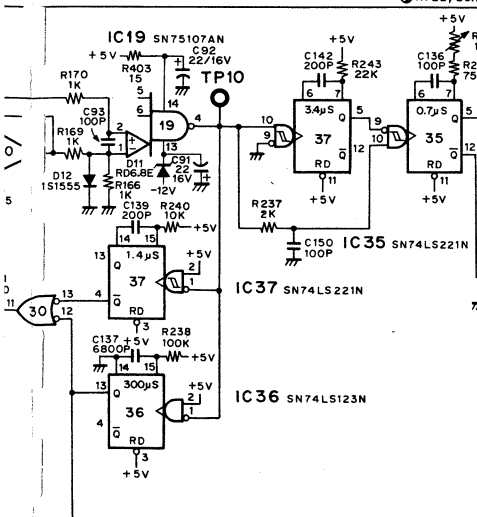
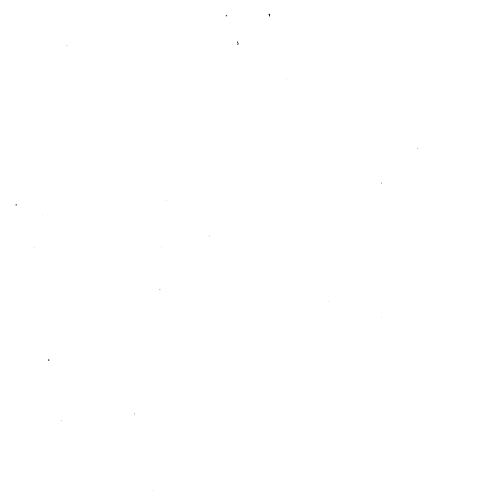
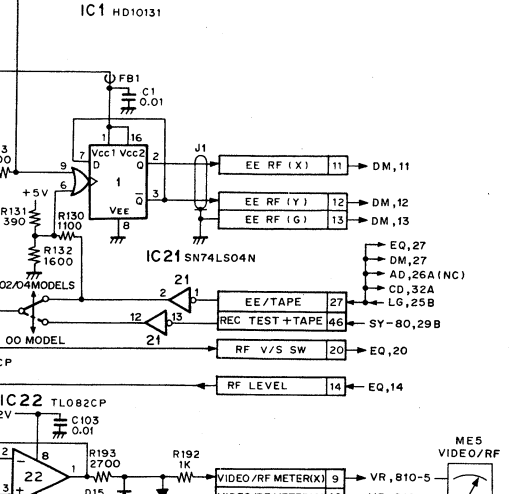
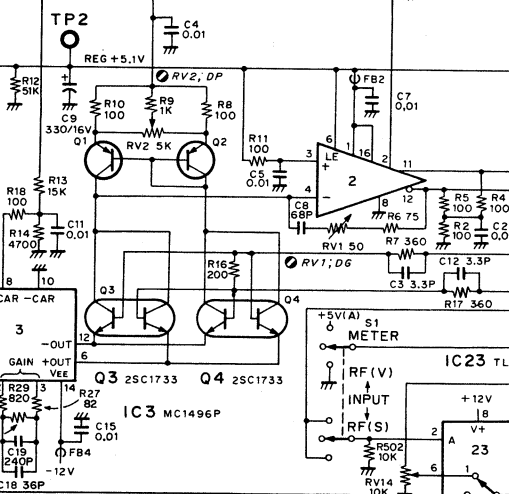
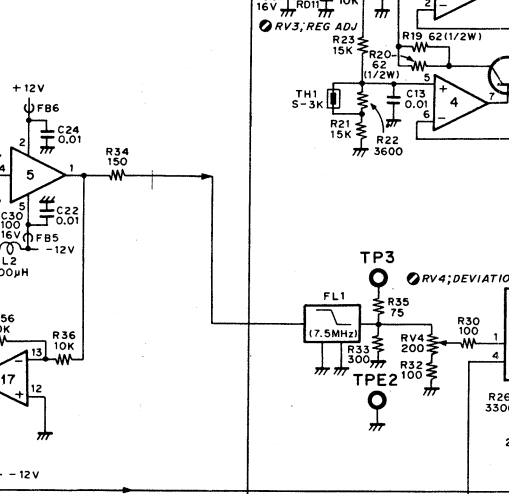
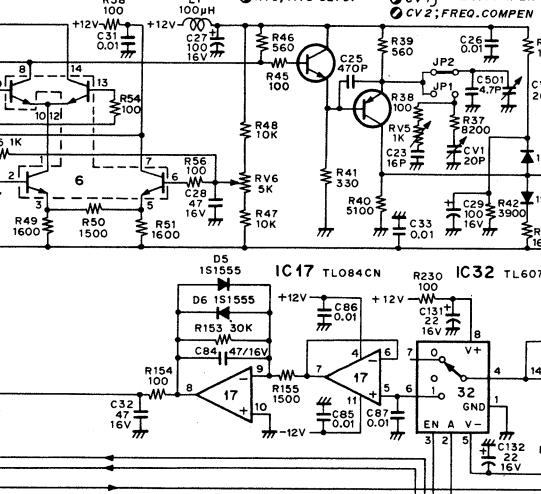
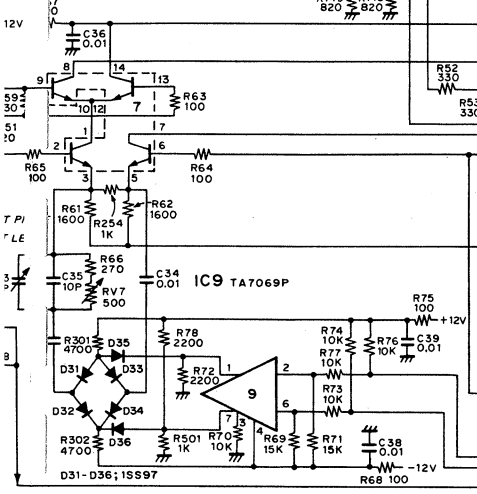


C7 FT5709M IC16 HD10105

IC6 FT5709M

Q8 2SC2009 Q7 2SA1005

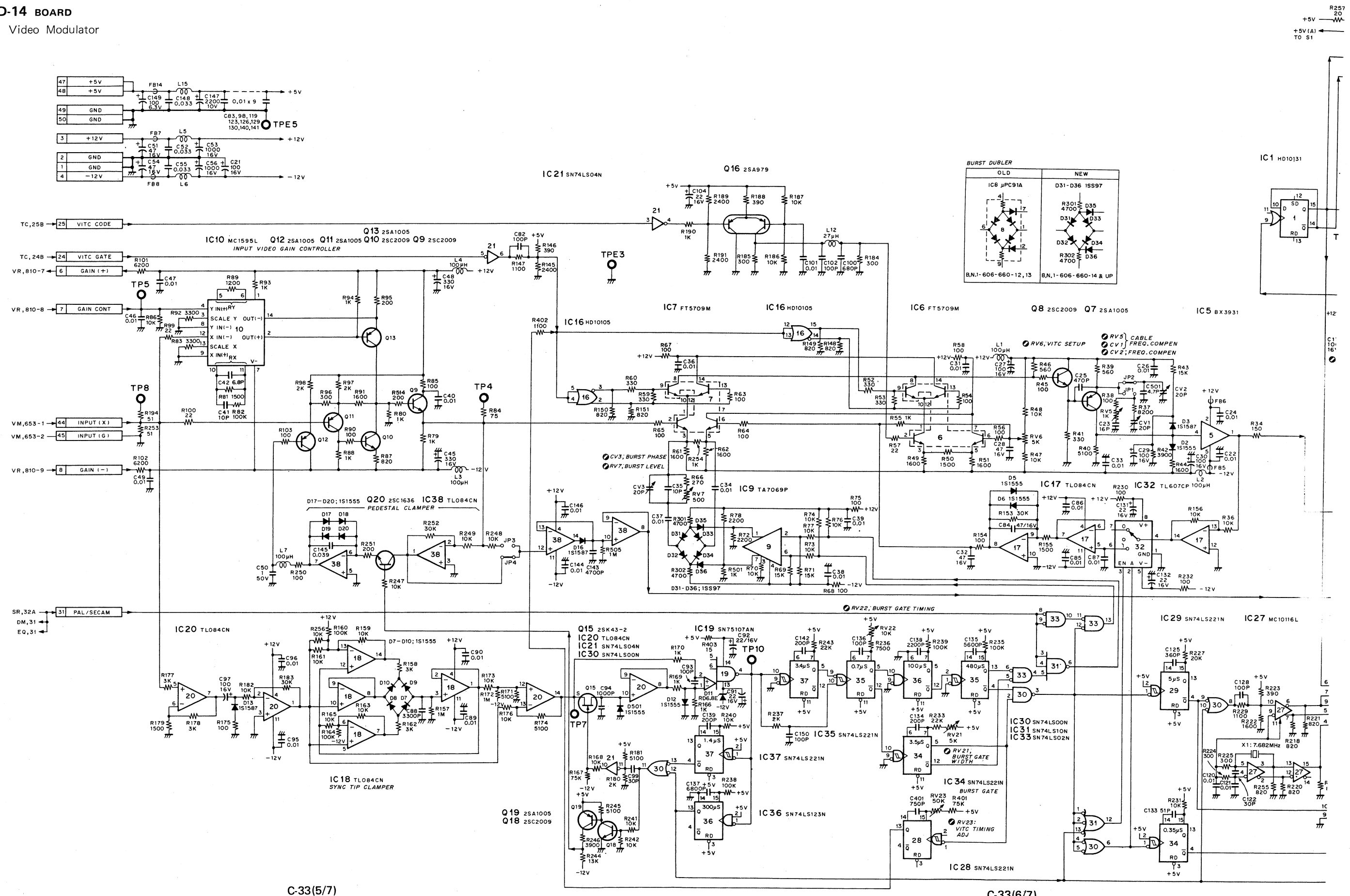
IC5 BX3931



MD-14 BOARD
BOARD NO. 1-606-660-12,13 & UP
BVH-2000PS; #10301-
BVH-2180PS; #10001-

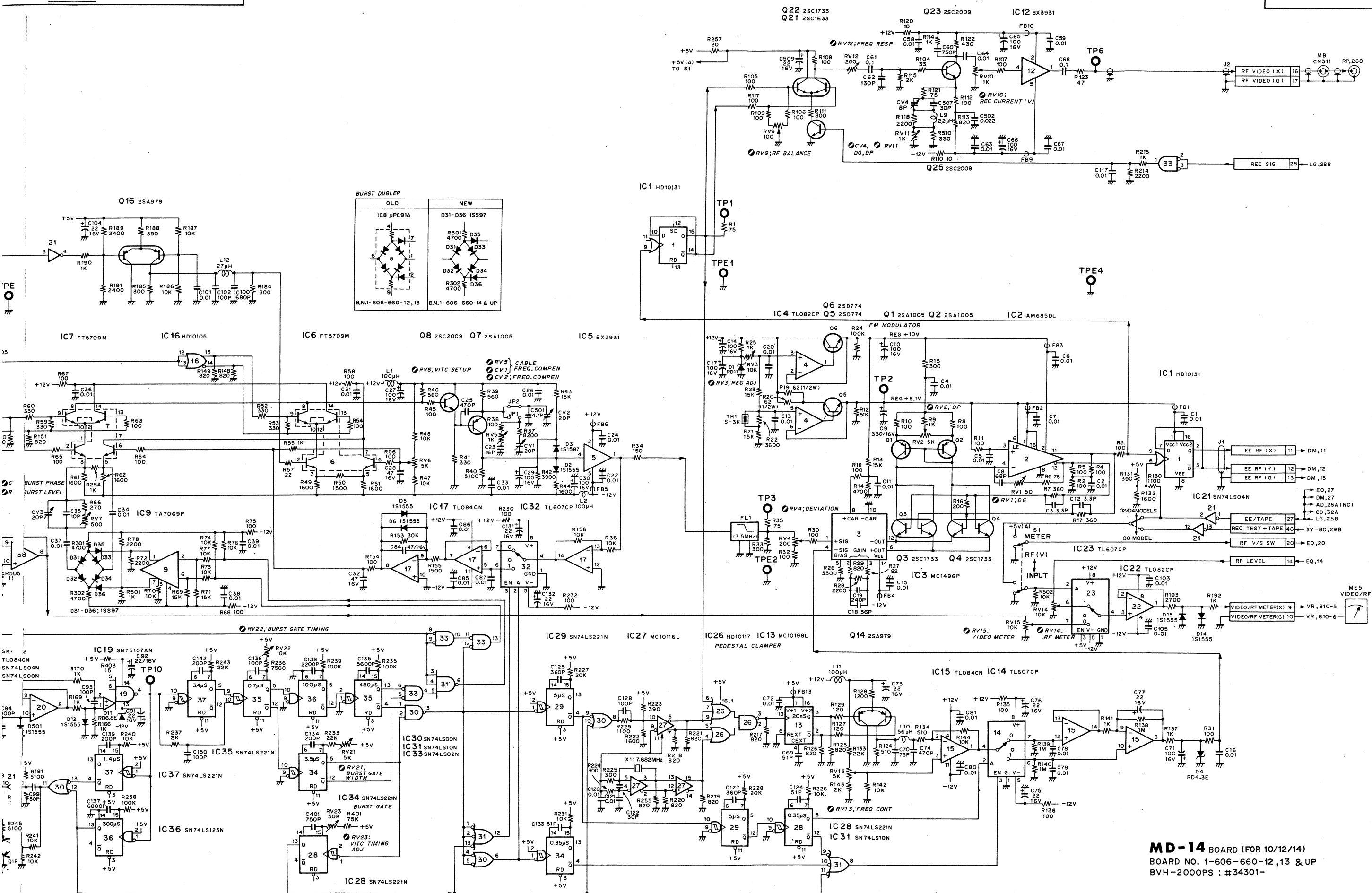
MD-14 BOARD

Video Modulator



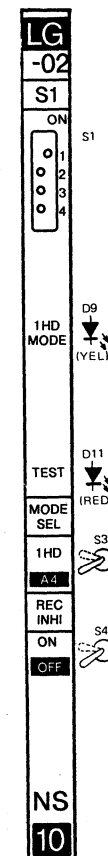
C-33(5/7)

C-33(6/7)

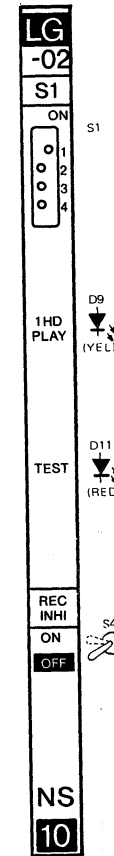


LG-02(A) BOARD (1-606-682-14)
Component Side

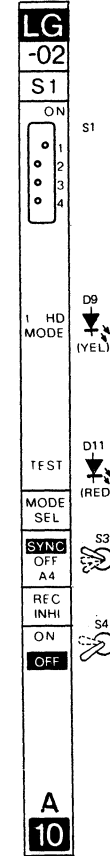
BVH-2000PS
(For 10, 12, 14 MODEL)



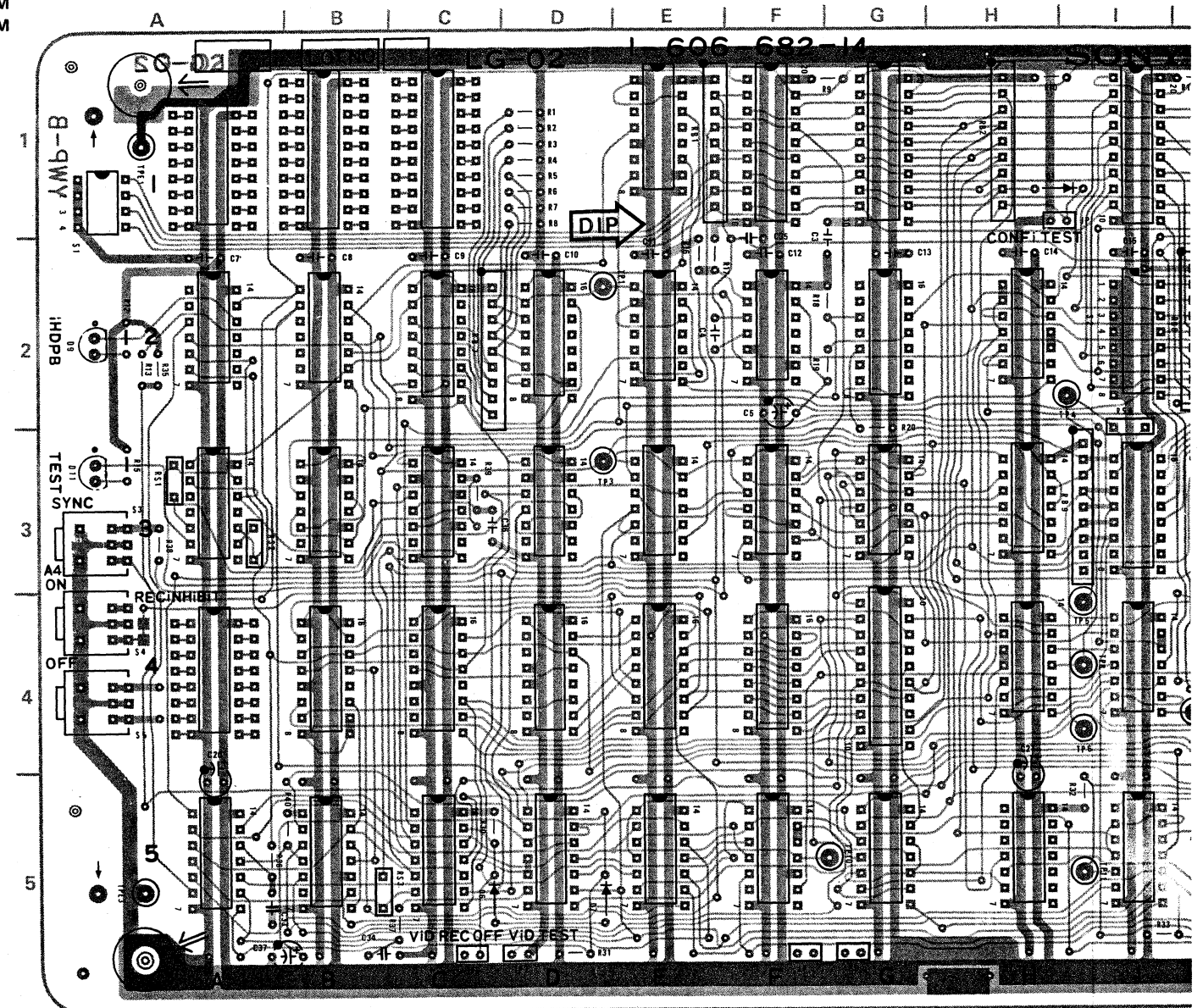
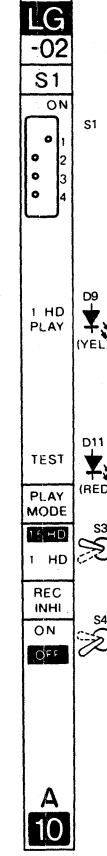
BVH-2000
(For 10, 12 MODEL)



BVH-2000PS
BVH-2180PS

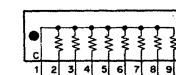


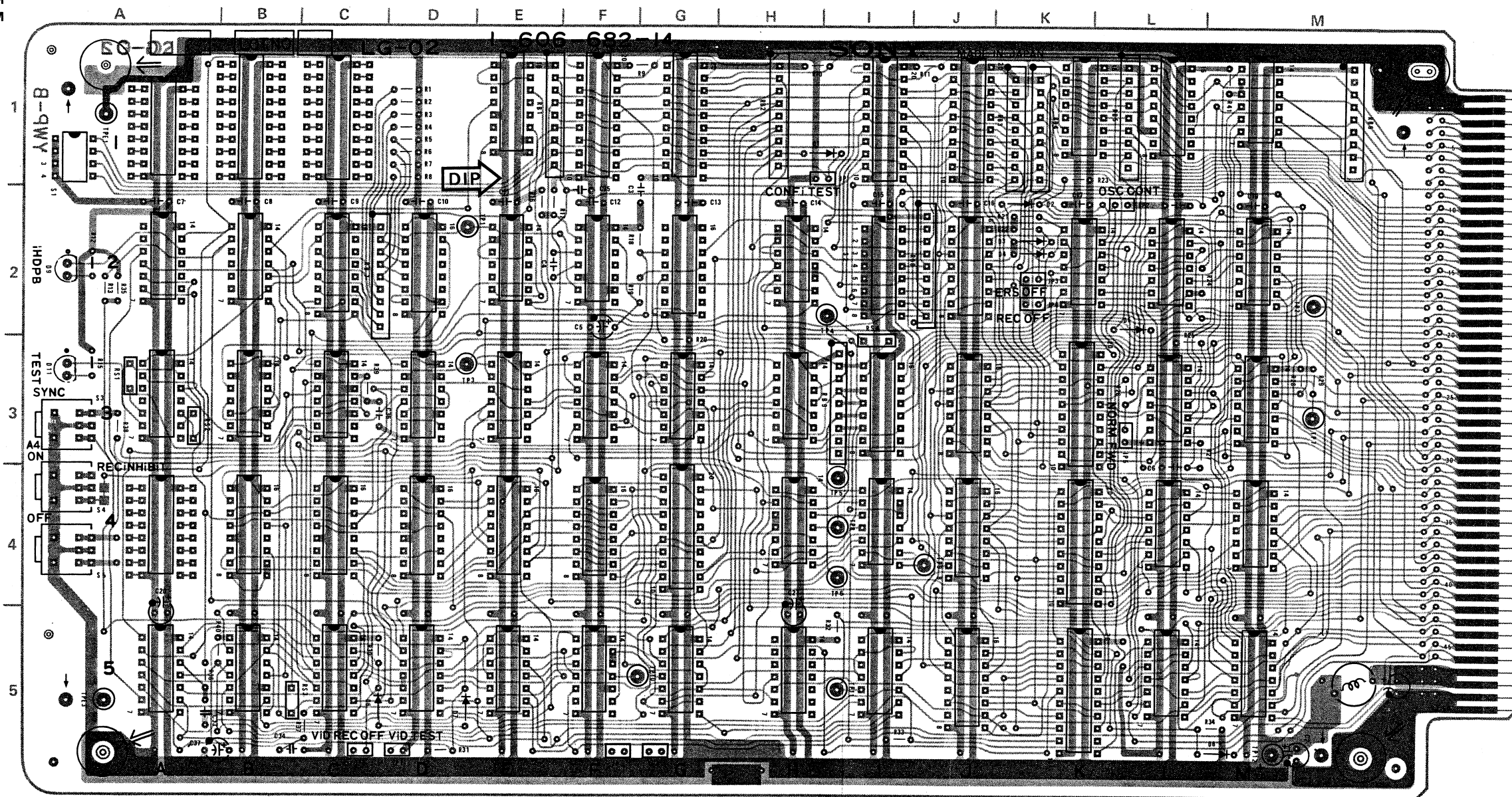
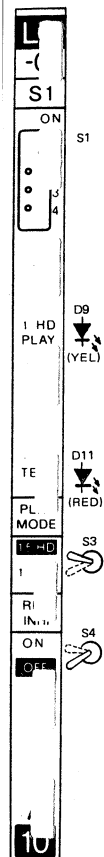
BVH-2000/PM
BVH-2180/PM



1-606-682-14 COMPONENT SIDE

RB1, 2, 3, 4, 5, 6, 7, 8, 9

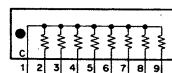


BV 2000/PM
BV 2180/PM

1-606-682-14 COMPONENT SIDE

1-606-682-14 SOLDER SIDE

RB1, 2, 3, 4, 5, 6, 7, 8, 9



LG-02(A) (1-606-682-13 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM

D1	1H	JP1	1H
D2	2K	JP2	2L
D3	2K	JP3	2K
D4	2K	JP4	2K
D5	2L	JP5	3L
D6	5C	JP6	5C
D7	5D	JP7	5D
D8	5M	JP8	5F
D9	2A	JP9	5G
D11	3A		

IC1A	RB1	1E
IC1C	RB2	1H
IC1E	RB3	1K
IC1F	RB4	1K
IC1G	RB5	1L
IC1I	RB6	1M
IC1J	RB7	2C
IC1K	RB8	2J
IC1L	RB9	3I

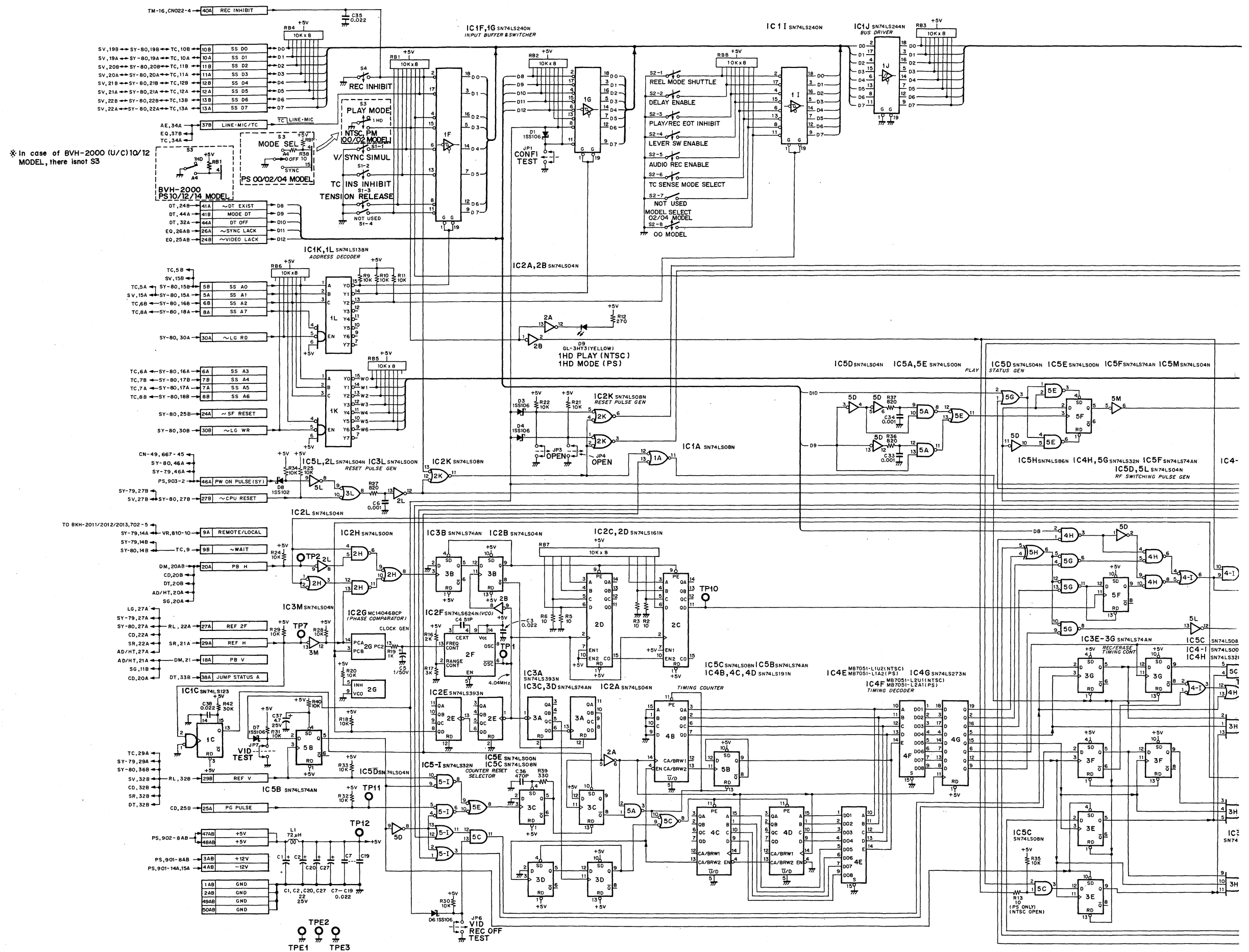
IC2A	S1	1A
IC2B	S2	2I
IC2C	S3	3A
IC2D	S4	4A

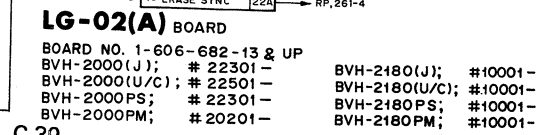
IC2E	TP1	2D
IC2F	TP2	2M
IC2G	TP3	3D
IC2H	TP4	2I
IC2J	TP5	4I
IC2K	TP6	4I
IC2L	TP7	3M
IC2M	TP8	4I
IC3A	TP9	4J
IC3B	TP10	5F
IC3C	TP11	5I
IC3D	TP12	5M

IC3E	TPE1	1A
IC3F	TPE2	1M
IC3G	TPE3	5A

IC3H		
IC3I		
IC3J		
IC3K		
IC3L		
IC3M		
IC4A		
IC4B		
IC4C		
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IC4G		
IC4H		
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IC4K		
IC4L		
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IC5G		
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IC5I		
IC5J		
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IC5M		

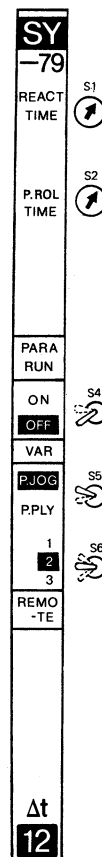
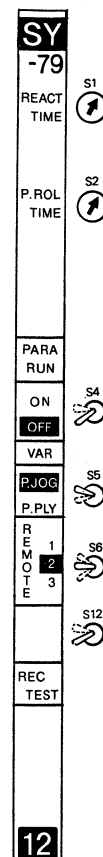
LG-02(A) BOARD
LOGIC



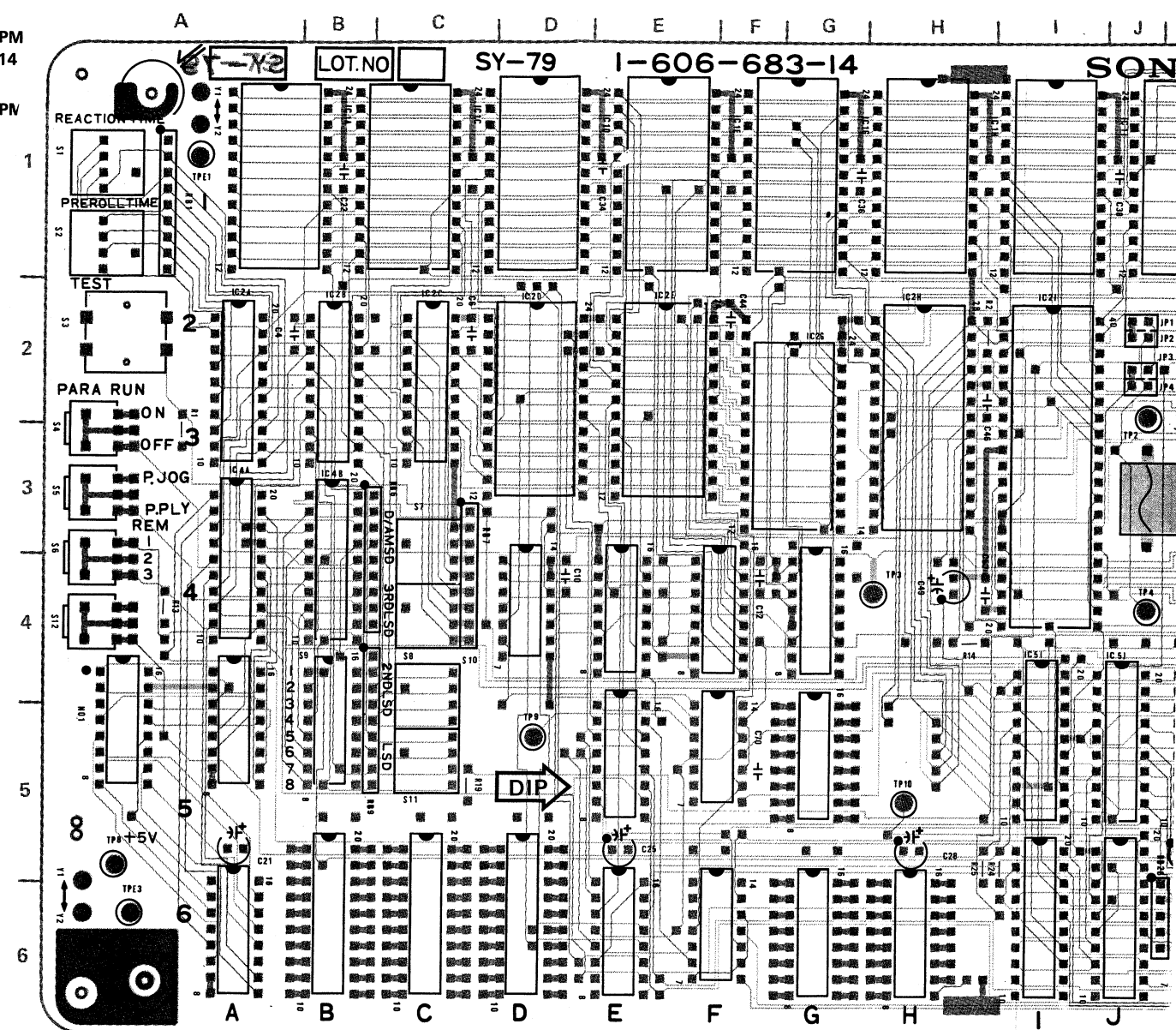
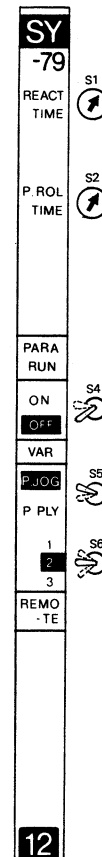


SY-79 BOARD (1-606-683-14)
 Component Side

BVH-2500/P


 BVH-2000/PS
 (for 00/10 models)

 BVH-2000/PS/PM
 (for 02/12/04/14 models)

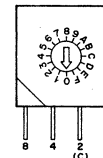
BVH-2180/PS/PN



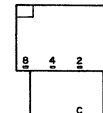
1-606-683-14 COMPONENT SIDE

S1, 2

-SIDE VIEW-



-BOTTOM VIEW-



TYPE S-101H



POSITION

PIN NO

8 4 2 1

0

1

2

3

4

5

6

7

8

9

A

B

C

D

E

F

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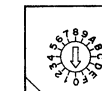
M

N

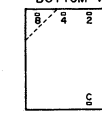
O = ON

S7, 8, 10, 11

-TOP VIEW-



-BOTTOM VIEW-



TYPE S-101G



POSITION

PIN NO

8 4 2 1

0

1

2

3

4

5

6

7

8

9

A

B

C

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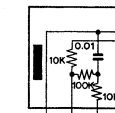
M

N

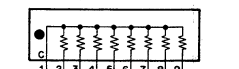
O = ON

CP1, 2, 3

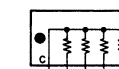
-SIDE VIEW-



RB1, 2, 3, 5, 6, 7, 8, 9, 28, 29



RB26, 27



00/PS
10 (dels)
BVH-2000/PS/PM
(for 02/12/04/14
models)
BVH-2180/PS/PM

SY-79
REACT TIME
P. ROL TIME
PARA RUN
ON
OFF
VAR
P. JOG
P. PLY
REMO TE

SY-79
REACT TIME
P. ROL TIME
PARA RUN
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SY-79
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PARA RUN
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P. JOG
P. PLY
REMO TE

SY-79
REACT TIME
P. ROL TIME
PARA RUN
ON
OFF
VAR
P. JOG
P. PLY
REMO TE

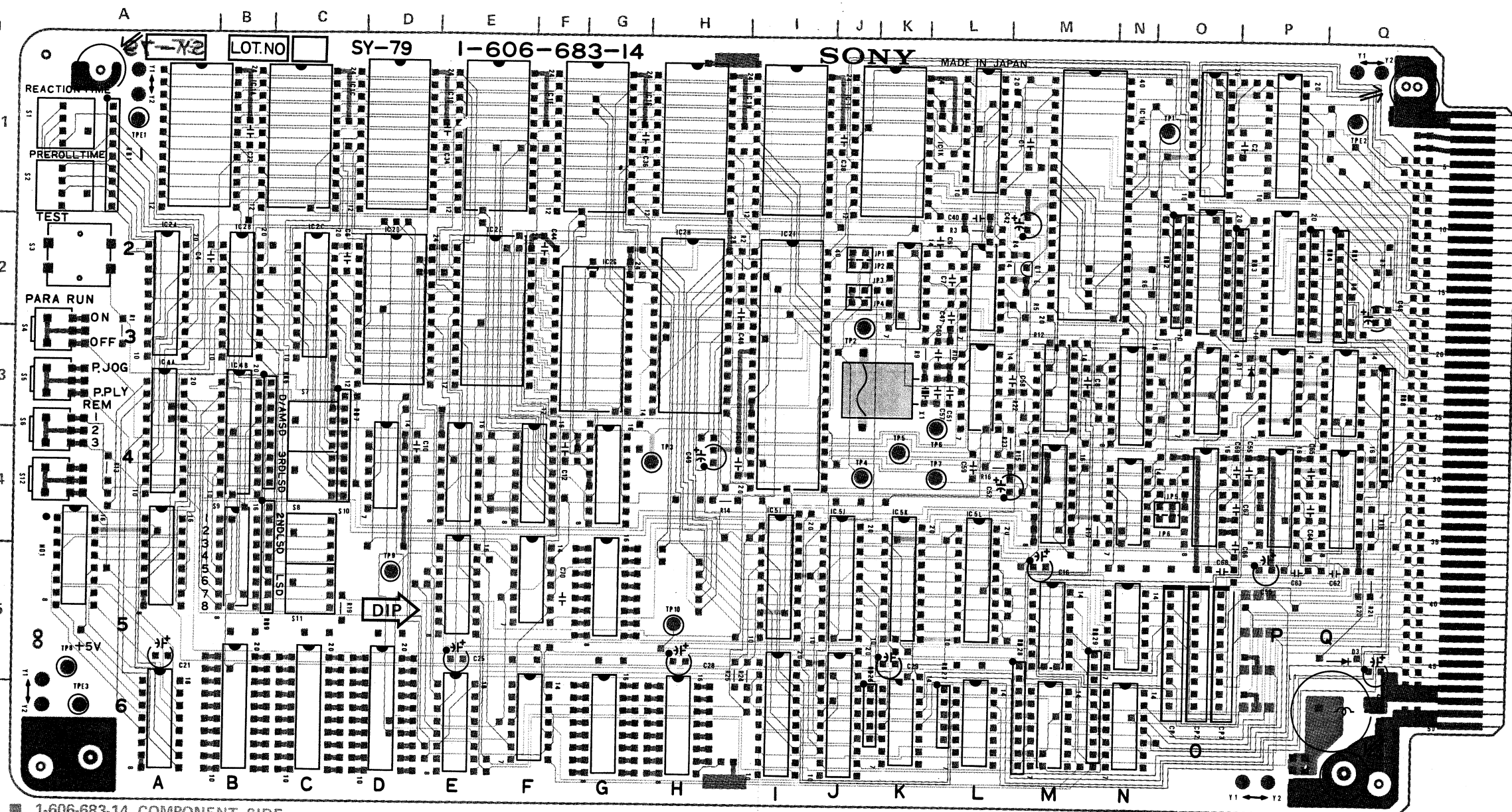
SY-79
REACT TIME
P. ROL TIME
PARA RUN
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VAR
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SY-79
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PARA RUN
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PARA RUN
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P. JOG
P. PLY
REMO TE

SY-79
REACT TIME
P. ROL TIME
PARA RUN
ON
OFF
VAR
P. JOG
P. PLY
REMO TE



SY-79 (1-606-683-14 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CP1 50
CP2 50
CP3 50

D1 3P
D3 5Q

(BVH-2500/P)
IC1A

IC1C
IC1D
IC1E
IC1F
IC1G
IC1H
IC1I
IC1J
IC1K
IC1L
IC1M
IC1N
IC1O
IC1P
IC1Q
IC1R
IC1S
IC1T
IC1U
IC1V
IC1W
IC1X
IC1Y
IC1Z

JP1 2J
JP2 2J
JP3 2J
JP4 2J
JP5 40
JP6 40

ND1 5A

Q1 2M

RB1 1A
RB2 20
RB3 2P
RB4 20
RB5 20
RB6 4C
RB7 4C
RB8 3Q
RB9 3C
RB10 6K
RB11 6L
RB12 6M
RB13 6M

S1 1A
S2 1A
S3 2A
S4 3A
S5 3A
S6 4A
S7 4C
S8 4C
S9 5B
S10 5C
S11 5C

(BVH-2500/P)
IC4G

IC4M
IC4N
IC4O
IC4P
IC4Q
IC4R
IC4S
IC4T
IC4U
IC4V
IC4W
IC4X
IC4Y
IC4Z

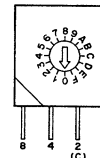
TP1 1Q
TP2 2J
TP3 4H
TP4 4J
TP5 4K
TP6 4L
TP7 4L
TP8 5A
TP9 5D
TP10 5H

TPE1 1A
TPE2 1Q
TPE3 6A

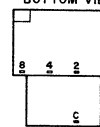
X1 3L

S1, 2

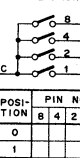
-SIDE VIEW-



-BOTTOM VIEW-



TYPE S-1011



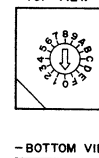
POSITION

POSITION	PIN NO
1	8
2	4
3	2
4	1
5	3
6	5
7	6
8	7
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50

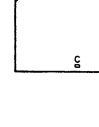
O = ON

S7, 8, 10, 11

-TOP VIEW-

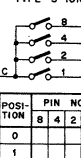


-BOTTOM VIEW-



O = ON

TYPE S-1010



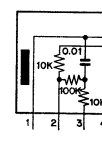
POSITION

POSITION	PIN NO
1	8
2	4
3	2
4	1
5	3
6	5
7	6
8	7
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50

O = ON

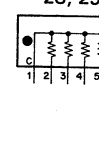
CP1, 2, 3

-SIDE VIEW-



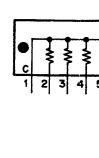
RB1, 2, 3, 5, 6, 7, 8, 9, 28, 29

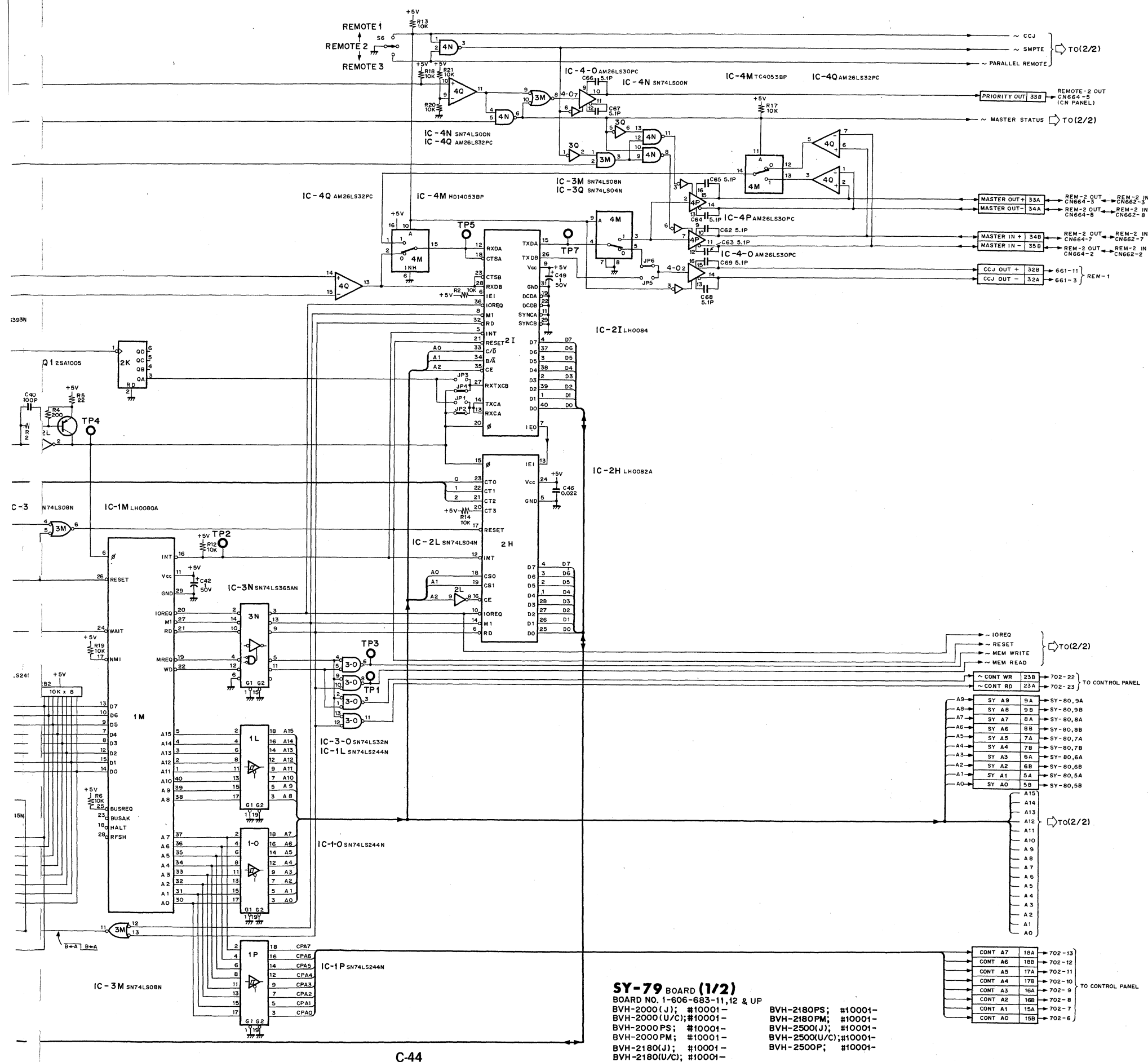
-SIDE VIEW-

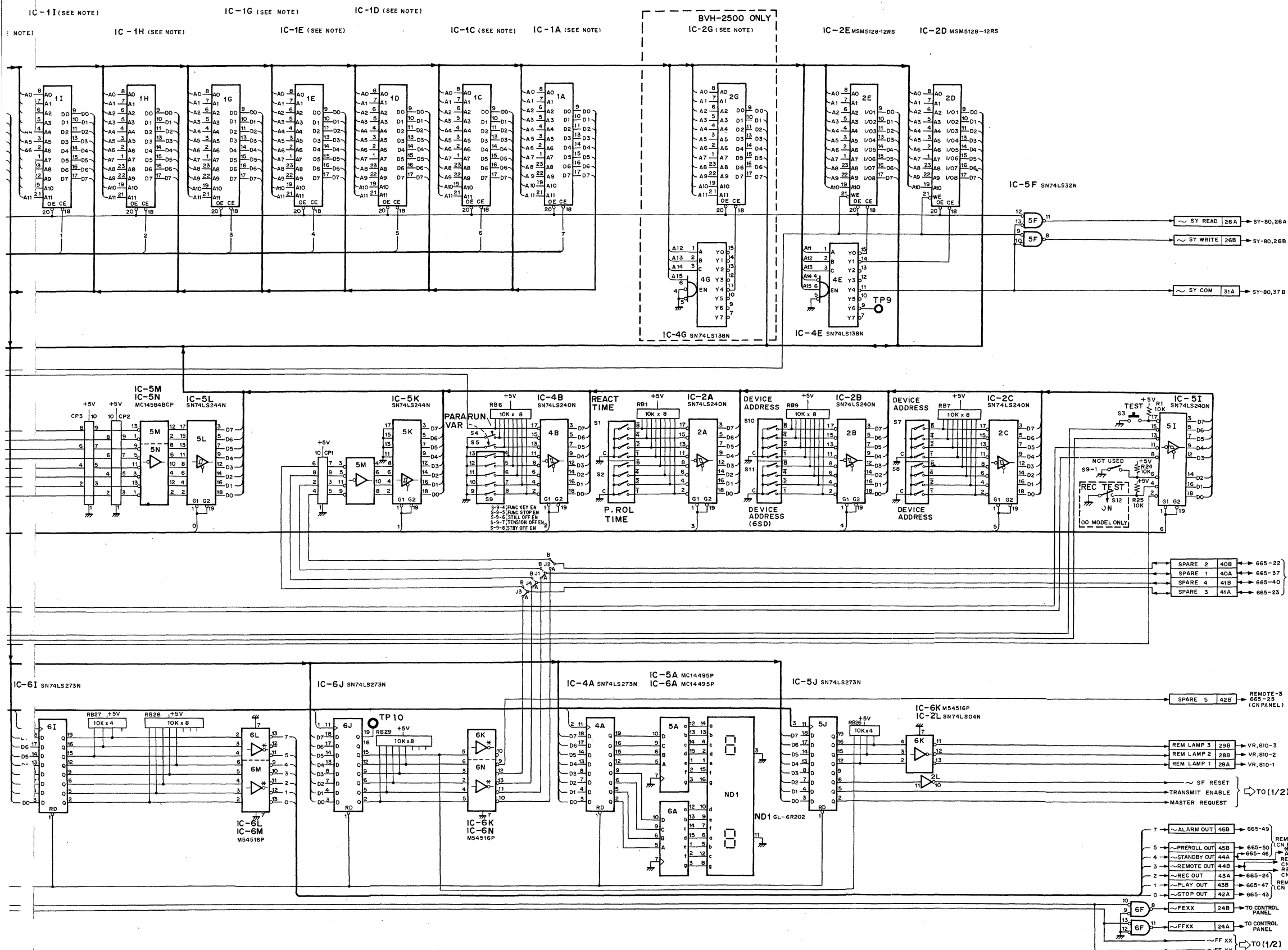


RB26, 27

-SIDE VIEW-







NOTE; EPROM

REF. No.	TYPE No.		
	BVH-2000/PS/PM BVH-2180/PS/PM	BVH-2500	BVH-2500P
IC-1A	*2732-7703-5	2732-77C2	2732-77D1
IC-1C	2732-7603-6	2732-76C2	2732-76D1
IC-1D	2732-7503-5	2732-75C2	2732-75D1
IC-1E	2732-7403-5	2732-74C2	2732-74D1
IC-1G	2732-7303-5	2732-73C2	2732-73D1
IC-1H	2732-7203-5	2732-72C2	2732-72D1
IC-1I (NTSC)	2732-7103-5	2732-71C2	---
IC-1I (PS/P)	2732-71A3-5	---	2732-71D1
IC-1I (PM)	2732-71B3-5	---	---
IC-1K	2732-7003-6	2732-70C2	2732-70D1
IC-2G	NOT USED	*2732-7CC2	2732-7CD1

*IC-2G is added to the BVH-2500 with serial No. shown below.
Japan; #10201 and up
US/Canada; #10301 and up

*IC-1A is added to the BVH-2000/2180 series with serial No. shown below.

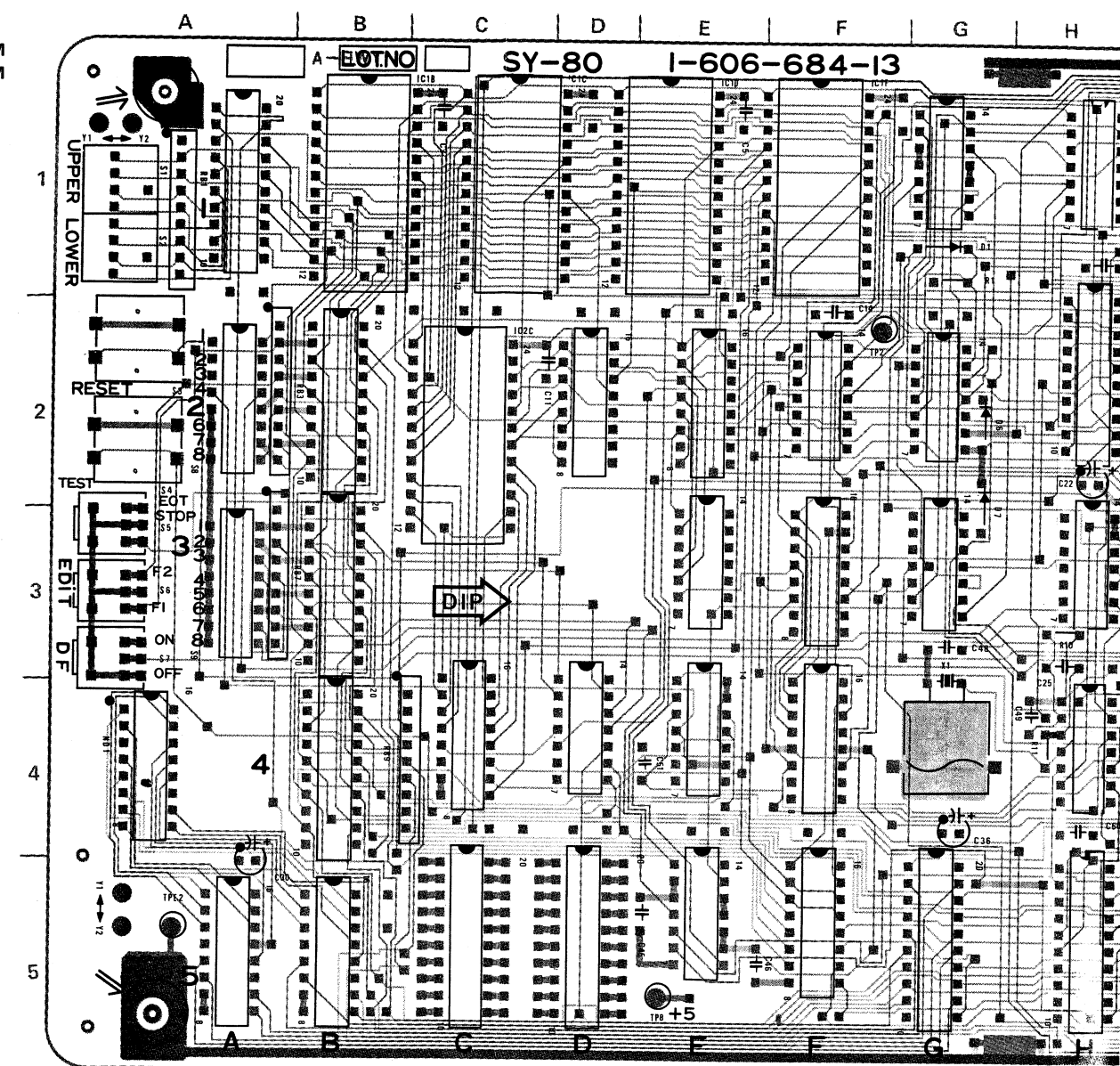
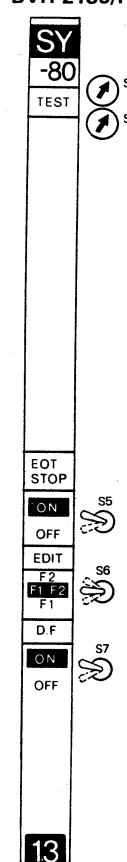
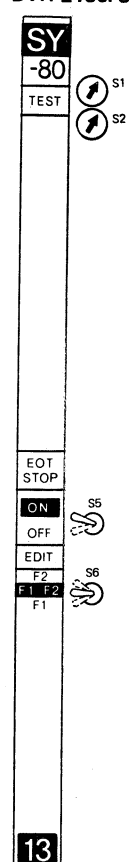
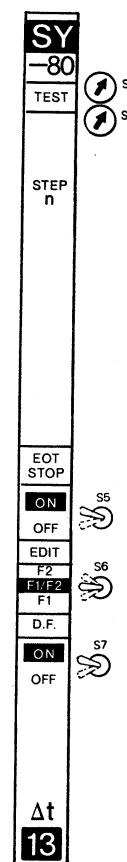
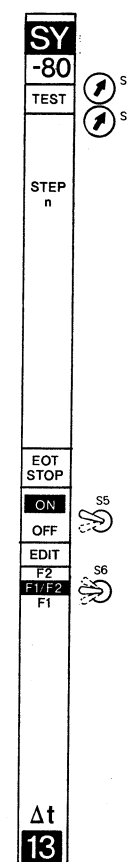
BVH-2000
Japan; #35401 and up
US/Canada; #35701 and up
PM; #30701 and up
PS; #35501 and up
BVH-2180
Japan; #11001 and up
US/Canada; #11101 and up
PM; #10001 and up
PS; #10801 and up

SY-80 BOARD (1-606-684-13)

Component Side

BVH-2500P

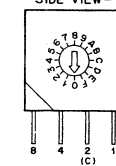
BVH-2500

BVH-2000PS
BVH-2180PSBVH-2000/PM
BVH-2180/PM

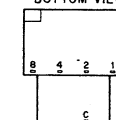
1-606-684-13 COMPONENT SIDE

S1, 2.

-SIDE VIEW-



-BOTTOM VIEW-



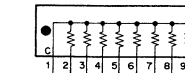
TYPE S-1011



POSITION	PIN NO.
0	1 2 3 4 5 6 7 8 9
1	1 2 3 4 5 6 7 8 9
2	1 2 3 4 5 6 7 8 9
3	1 2 3 4 5 6 7 8 9
4	1 2 3 4 5 6 7 8 9
5	1 2 3 4 5 6 7 8 9
6	1 2 3 4 5 6 7 8 9
7	1 2 3 4 5 6 7 8 9
8	1 2 3 4 5 6 7 8 9
9	1 2 3 4 5 6 7 8 9
A	1 2 3 4 5 6 7 8 9
B	1 2 3 4 5 6 7 8 9
C	1 2 3 4 5 6 7 8 9
D	1 2 3 4 5 6 7 8 9
E	1 2 3 4 5 6 7 8 9
F	1 2 3 4 5 6 7 8 9

O = ON

RB1, 2, 3, 4, 5, 6, 7, 8, 9



1-2 OPS
1-2 OPSBVH-2000/PM
BVH-2180/PMSY
-80
TESTS1
S2

EOT STOP

ON

OFF

EDIT

F2

F1

D.F.

ON

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

OFF

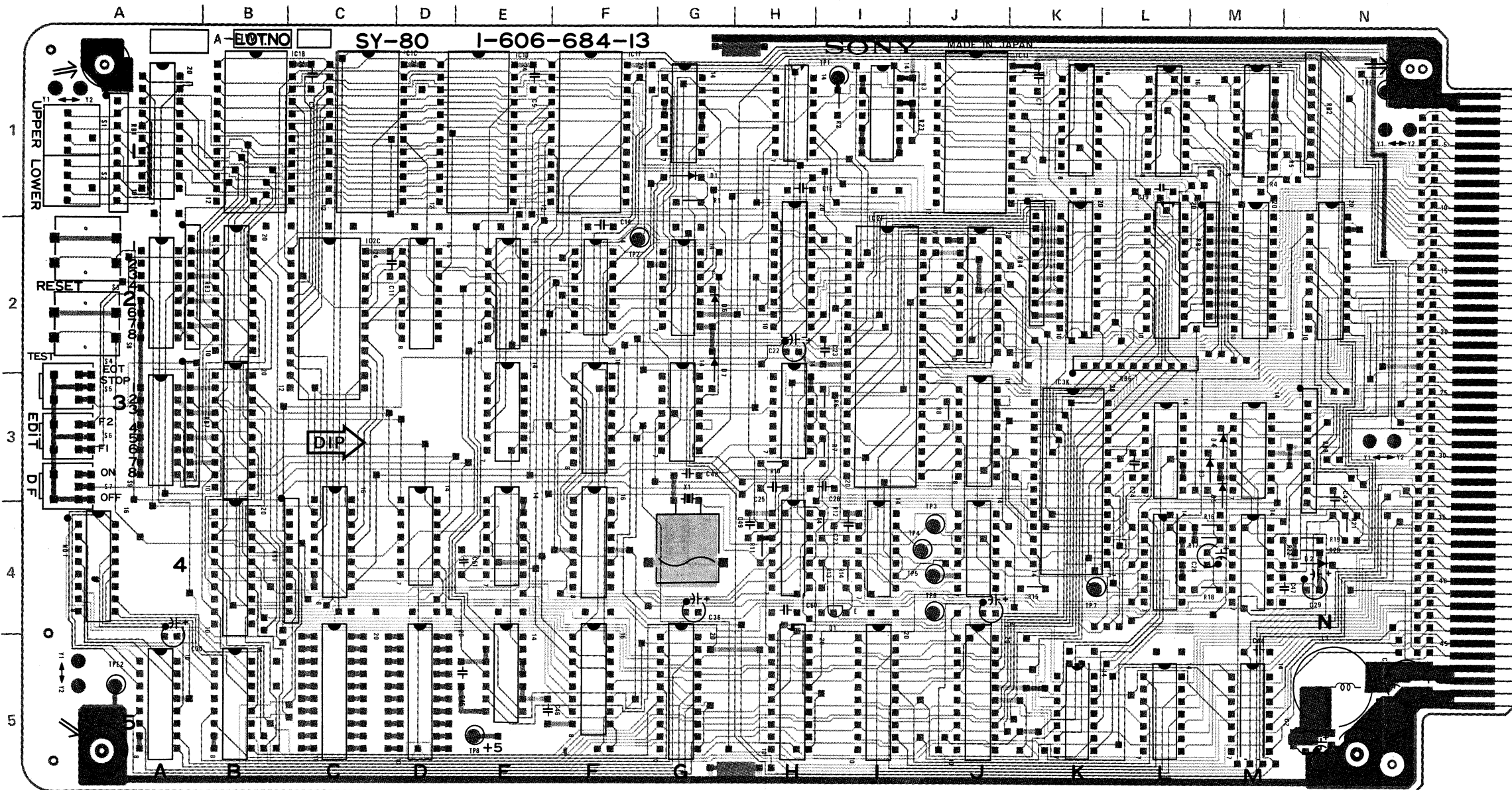
OFF

OFF

OFF

OFF

OFF



SY-80 (1-606-684-13 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/PD1 1G NO1 4A
D2 4M Q1 41
D3 3M(BVH-2500/P)
D4 3M RB1 1A
D5 3M RB2 1M
D6 2G RB3 2A
D7 3G RB4 2K
RB5 2M
RB6 2L
RB7 3A
RB8 3M
RB9 4CIC1A
IC1B (BVH-2500/P)IC1C S1 1A
S2 1A
IC1D S3 2A
IC1F S4 2A
IC1G S5 3A
IC1H S6 3A
IC1I (NTSC, PM)
IC1J S7 3A
IC1K
IC1L S8 2A
IC1M S9 3A
IC20
IC2E TP1 1F
IC2F TP2 2F
IC2G TP3 4J
IC2H TP4 4J
IC2I TP5 4J
IC2J TP6 4J
IC2K TP7 4K
IC2L TP8 5E
IC2M
IC2N TPE1 1M
IC3B TPE2 5A
IC3E TPE3 5M
IC3F
IC3G X1 4G
IC3H
IC3J
IC3K
IC3L
IC3M
IC4B
IC4C
IC4D
IC4E
IC4F
IC4H
IC4I
IC4J
IC4L
IC4M
IC5A
IC5B
IC5E
IC5F
IC5G
IC5H
IC5I
IC5J
IC5K
IC5L
IC5M

54

C-53

C-52

BVH-2000/PS/PM

BVH-2180/PS/PM

C-54

C-53

C-52

C-51

C-50

C-49

C-48

C-47

C-46

C-45

C-44

C-43

C-42

C-41

C-40

C-39

C-38

C-37

C-36

C-35

C-34

C-33

C-32

C-31

C-30

C-29

C-28

C-27

C-26

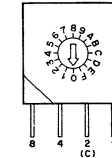
C-25

1-606-684-13 COMPONENT SIDE

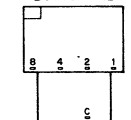
1-606-684-13

S1, 2.

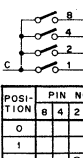
-SIDE VIEW-



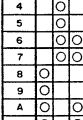
-BOTTOM VIEW-



TYPE S-1011



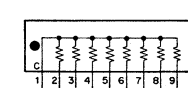
-BOTTOM VIEW-



POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

O = ON

RB1, 2, 3, 4, 5, 6, 7, 8, 9



C-53

C-54

C-84

C-83

C-82

C-81

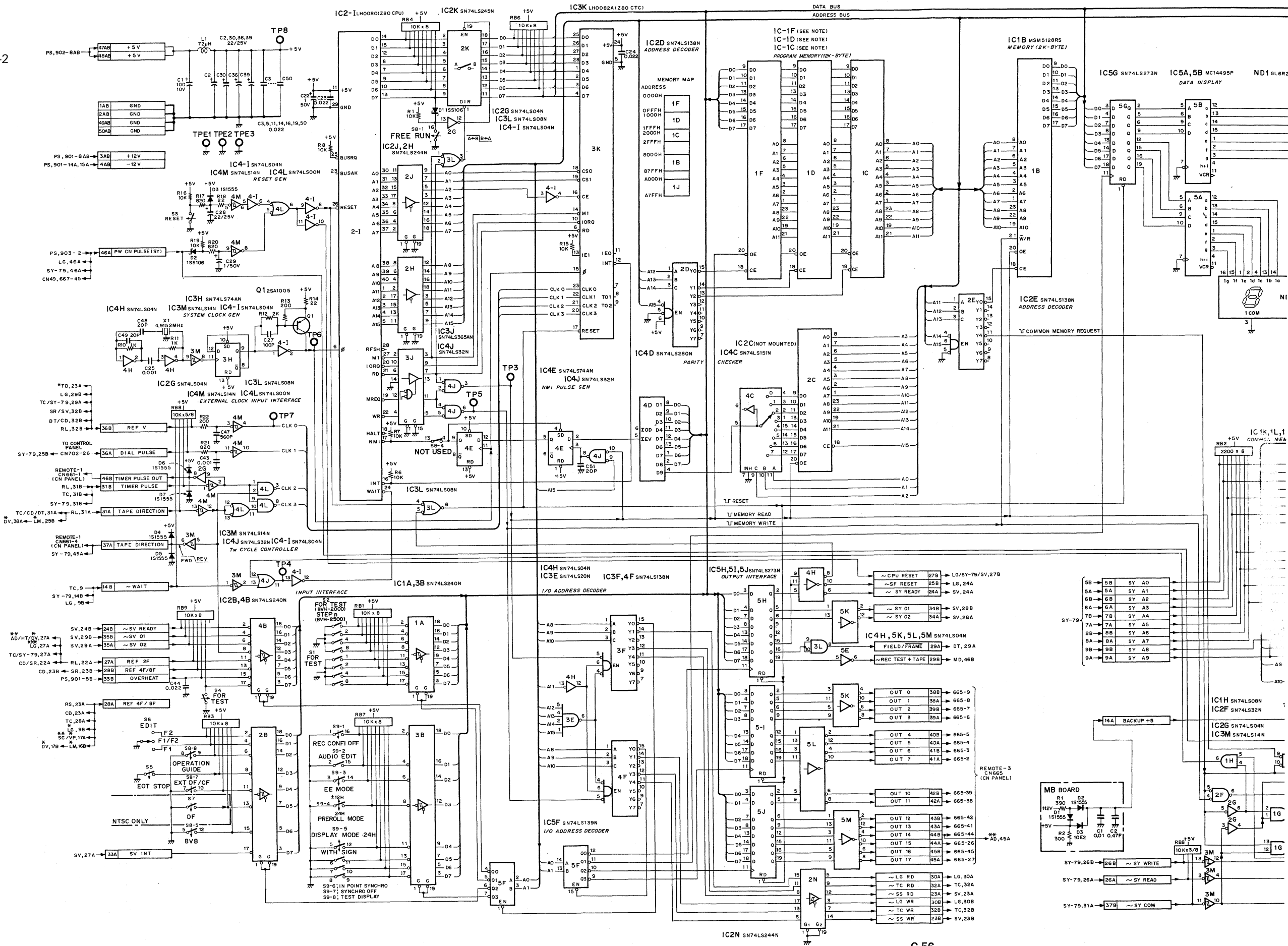
C-80

C-79

C-78

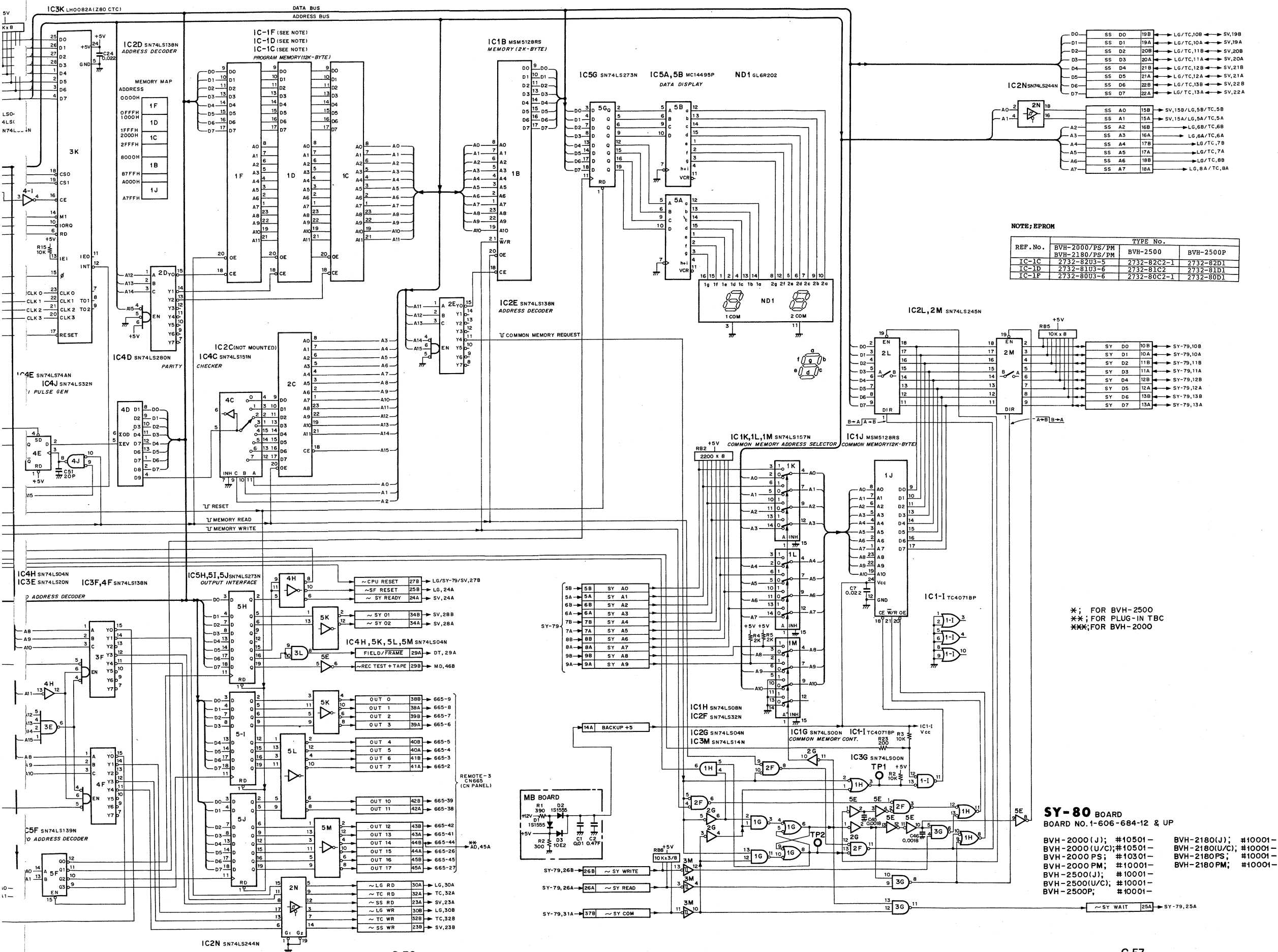
SY-80 BOARD

System Control CPU-2



C-55

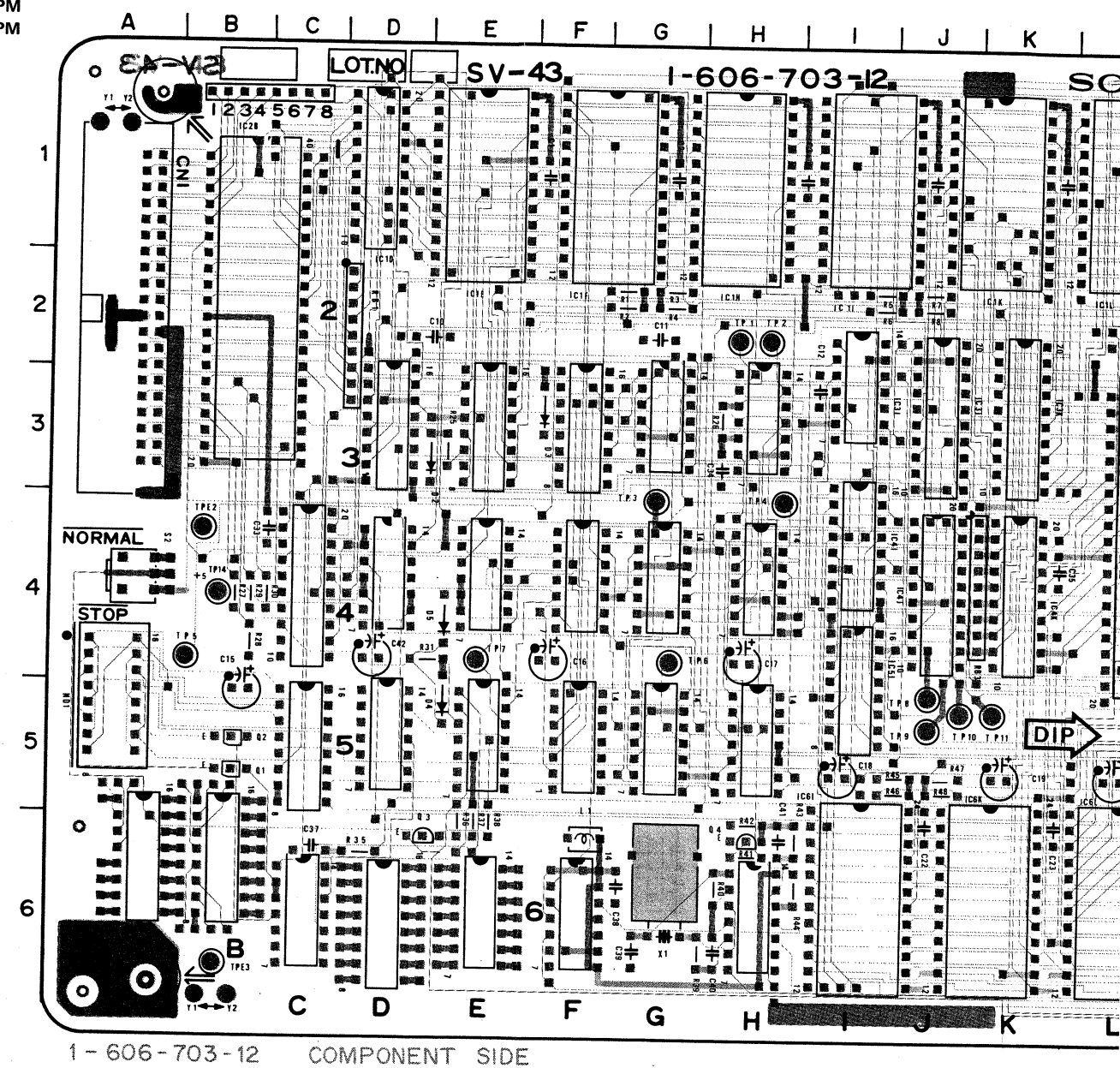
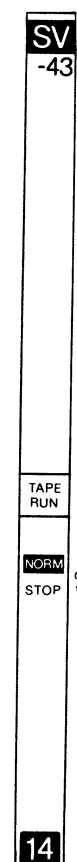
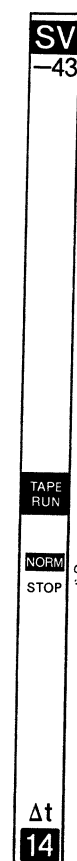
C-56



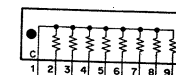
SV-43 BOARD (1-606-703-12)

Component Side

BVH-2500/P

BVH-2000/PS/PM
BVH-2180/PS/PM

RB1, 2, 3, 4, 5



BVH-2500/P

BVH-2000/PS/PM
BVH-2180/PS/PM

SV-43

TAPE RUN

NORM STOP

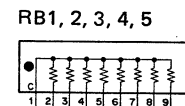
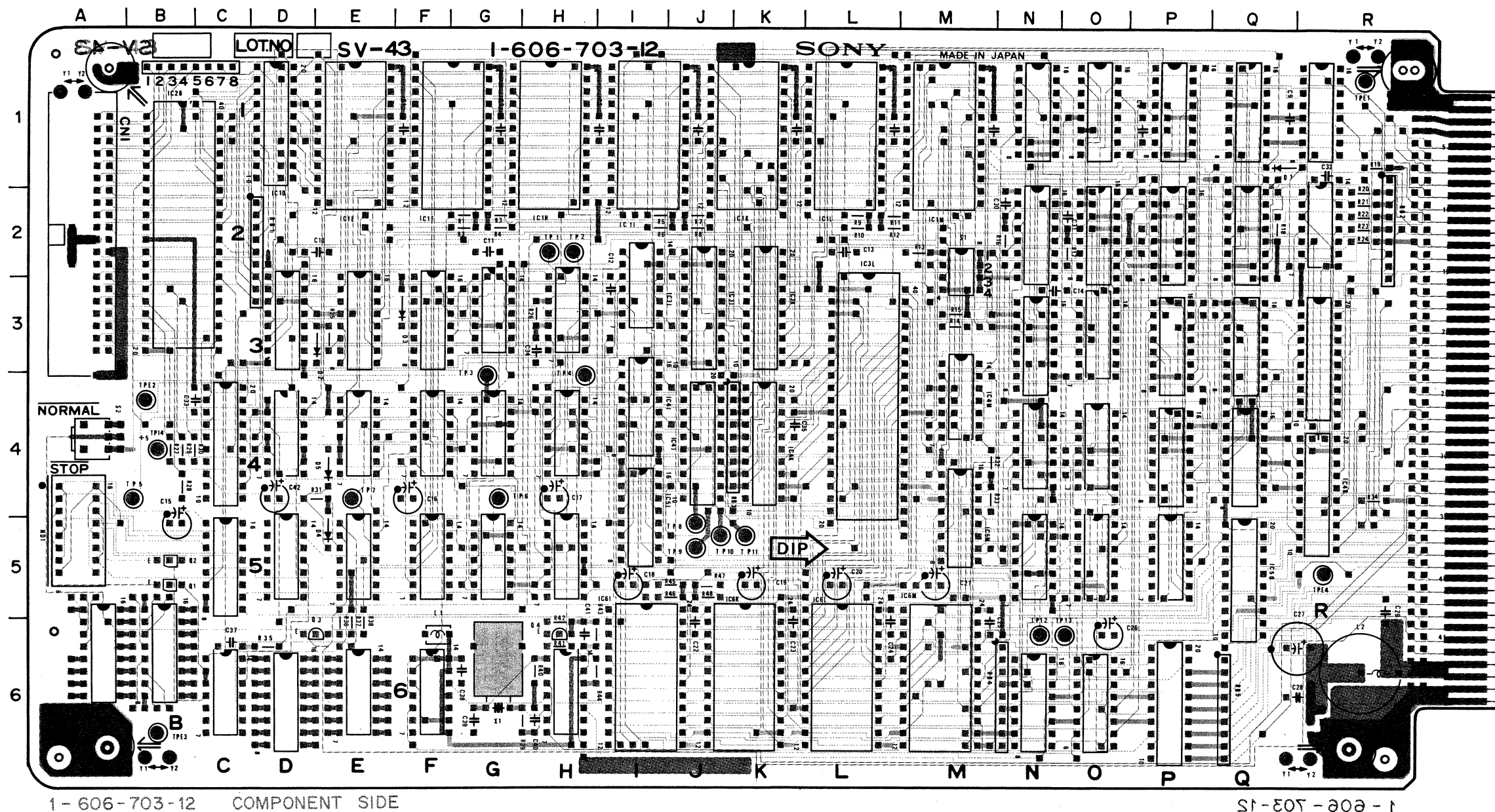
Δt 14

SV-43

TAPE RUN

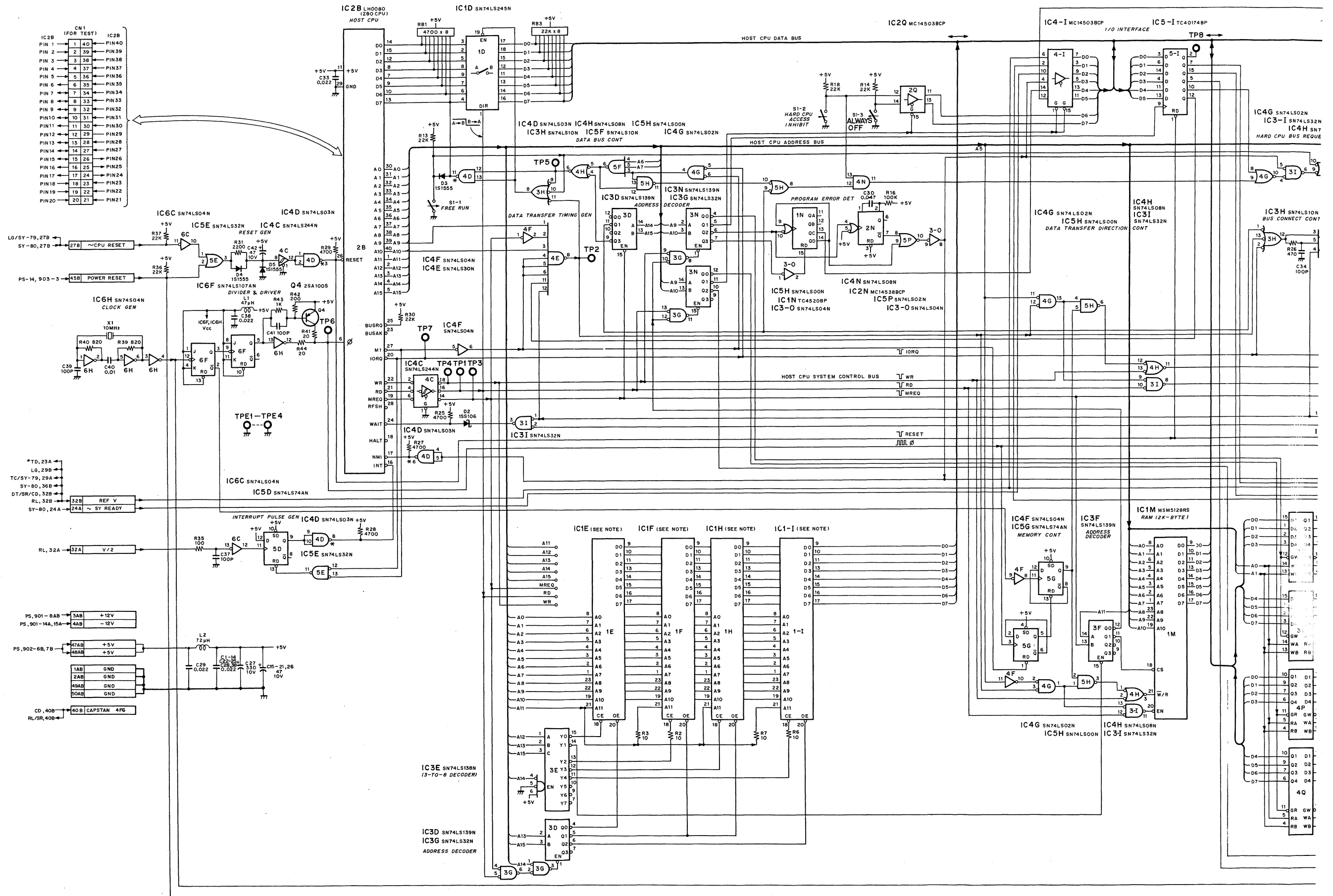
NORM STOP

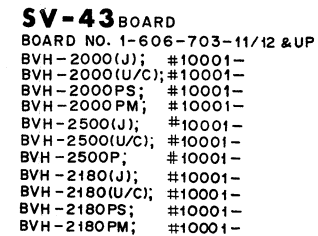
14



SV-43 (1-606-703-12 & UP)		
BVH-2000/PS/PM		IC5F
BVH-2180/PS/PM		IC5G
BVH-2500/P		IC5H
		IC5I
CN1M	2A	IC5M
		IC5N
D1	1Q	IC5O
D2	3E	IC5P
D3	3F	IC5Q
D4		IC6G
D5	4E	IC6H
		IC6I
IC1D		IC6J
IC1E		IC6K
IC1F		IC6M
IC1H		IC6N
IC1I		IC6O
IC1M		IC6P
IC1N		
IC1O		
IC1P		
IC1Q		Q1
IC1R		Q2
IC2B		Q3
IC2N		Q4
IC2O		
IC2P		R81
IC2Q		R82
IC2R		R83
IC3D		R84
IC3E		R85
IC3F		
IC3G		S1
IC3H		S2
IC3I		
IC3J		TP1
IC3K		TP2
IC3L		TP3
IC3M		TP4
IC3O		TP5
IC3P		TP6
IC3Q		TP7
IC3R		TP8
IC3S		TP9
IC4D		TP10
IC4E		TP11
IC4F		TP12
IC4G		TP13
IC4H		TP14
IC4I		
IC4J		TPE1
IC4K		TPE2
IC4M		TPE3
IC4N		TPE4
IC4O		
IC4P		X1
IC4Q		
IC4R		
IC5C		
IC5D		
IC5E		

SV-43 BOARD
Servo CPU

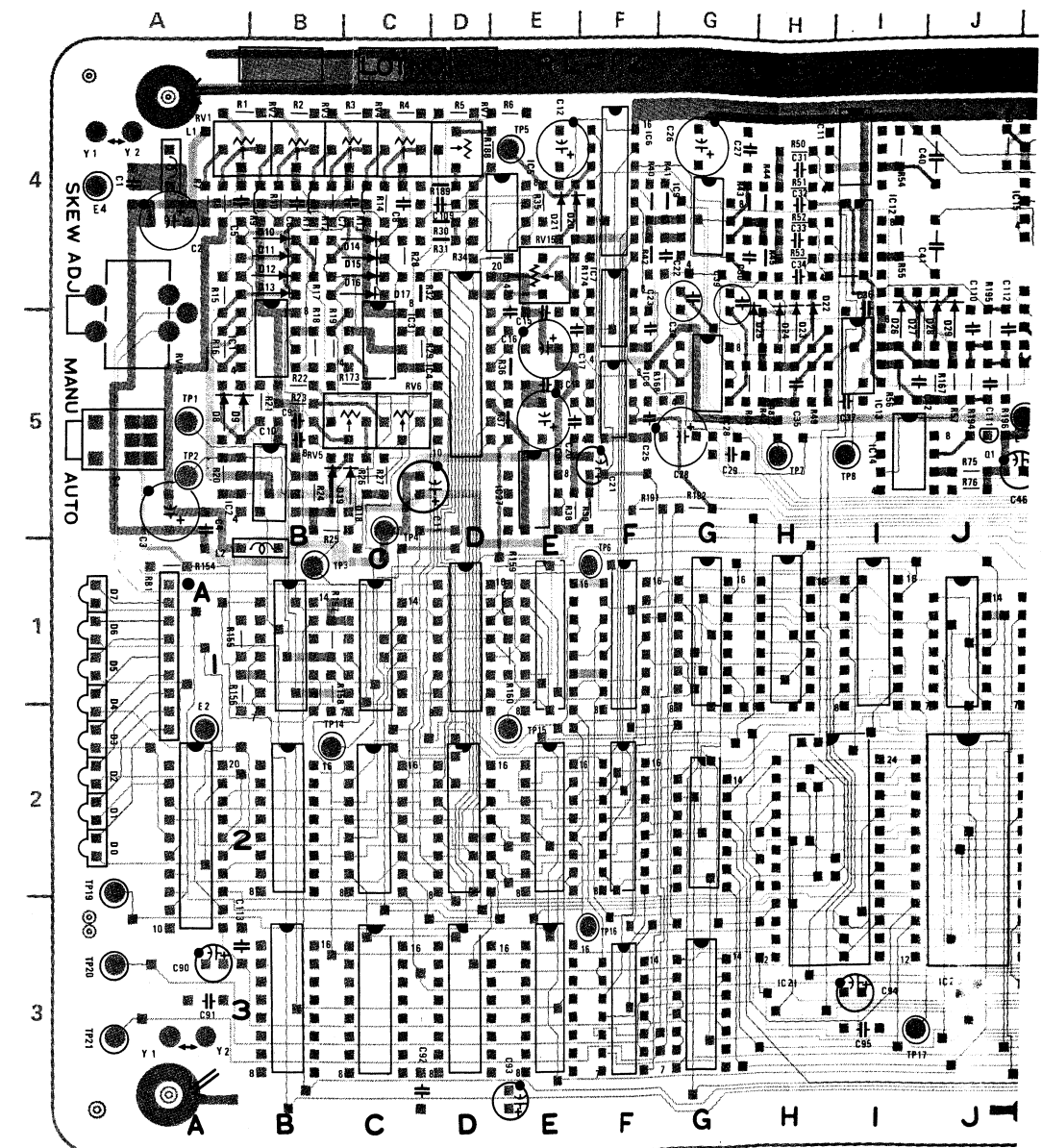
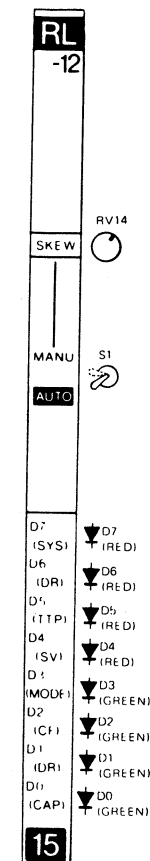
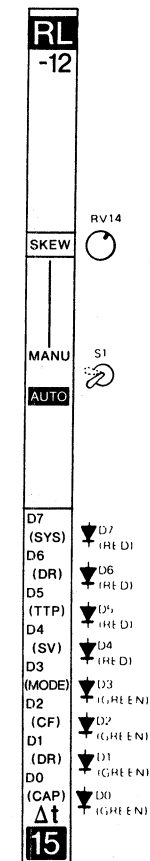




RL-12 BOARD (1-606-704-13)

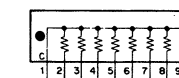
Component Side

BVH-2500P

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500

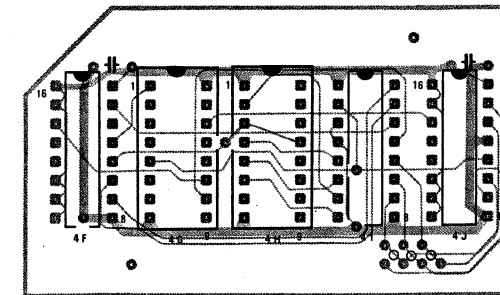
1-606-704-13 COMPONENT SIDE

RB1



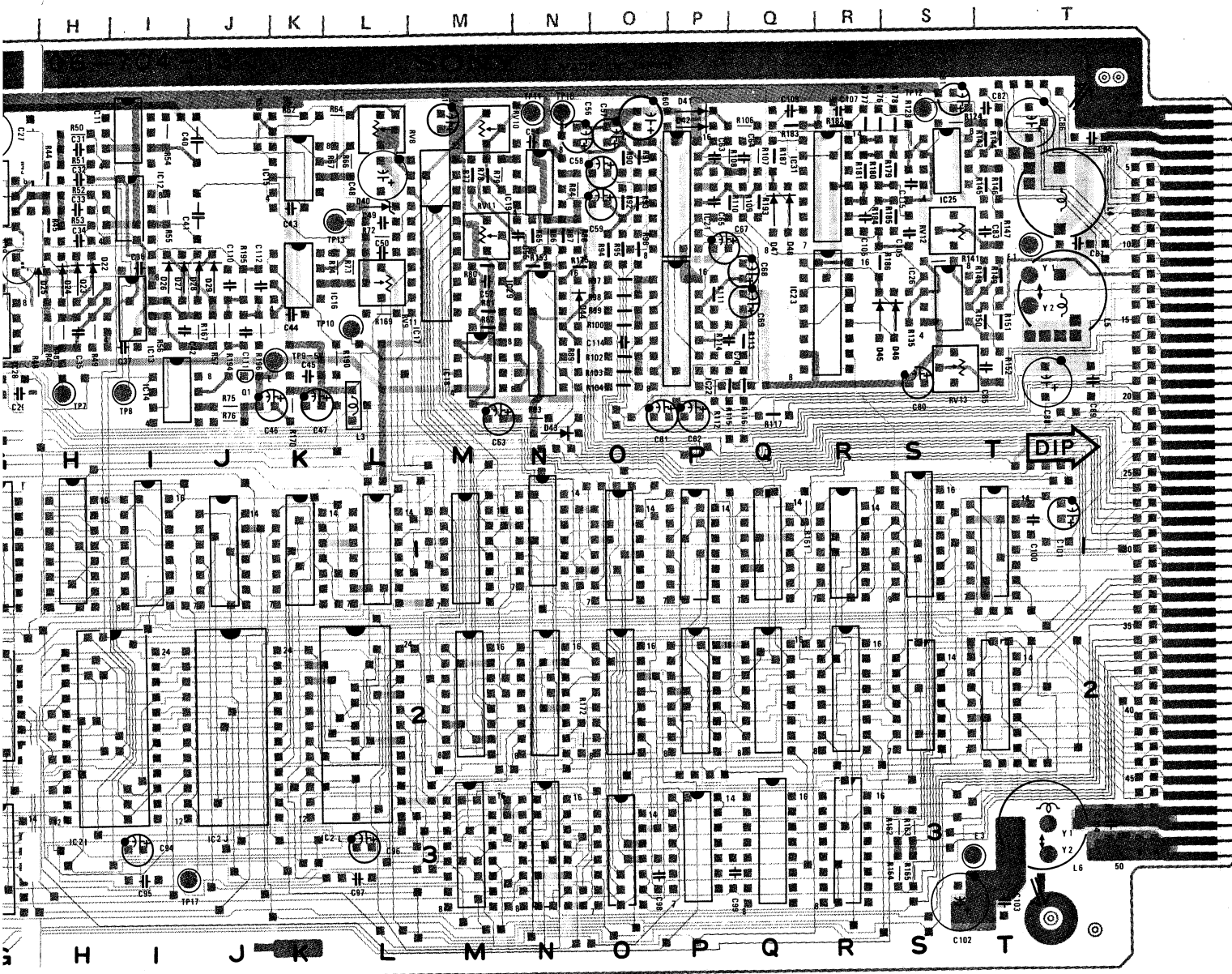
RS-20 BOARD (1-615-381-11)

Solder Side



1-615-381-11 COMPONENT SIDE

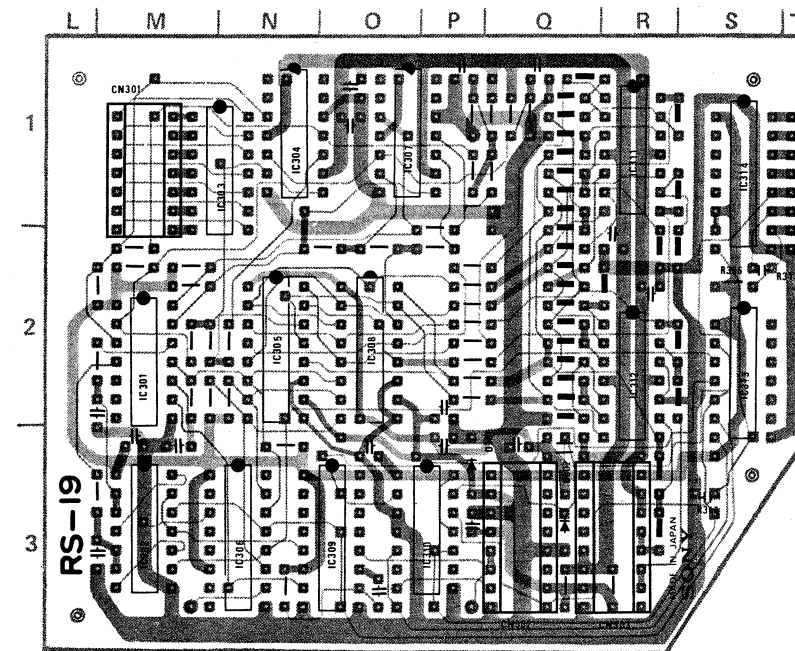
1-615-381-11 SOLDER SIDE



1-606-704-13 SOLDER SIDE

RS-19 BOARD (1-613-752-11)

Solder Side



1-613-752-11 COMPONENT SIDE

1-613-752-11 SOLDER SIDE

FOR BVH-2500P

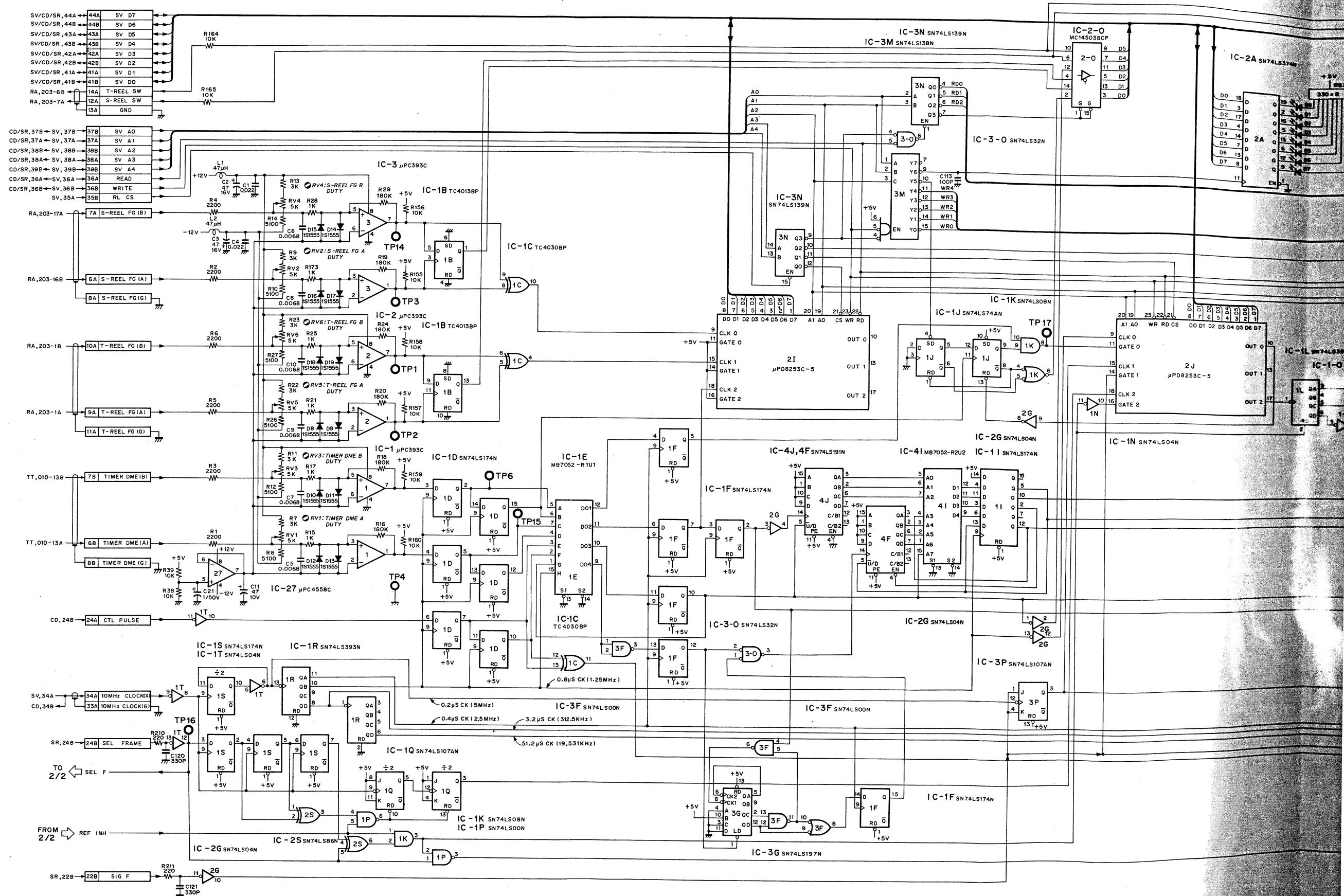
RL-12 (1-606-704-13)

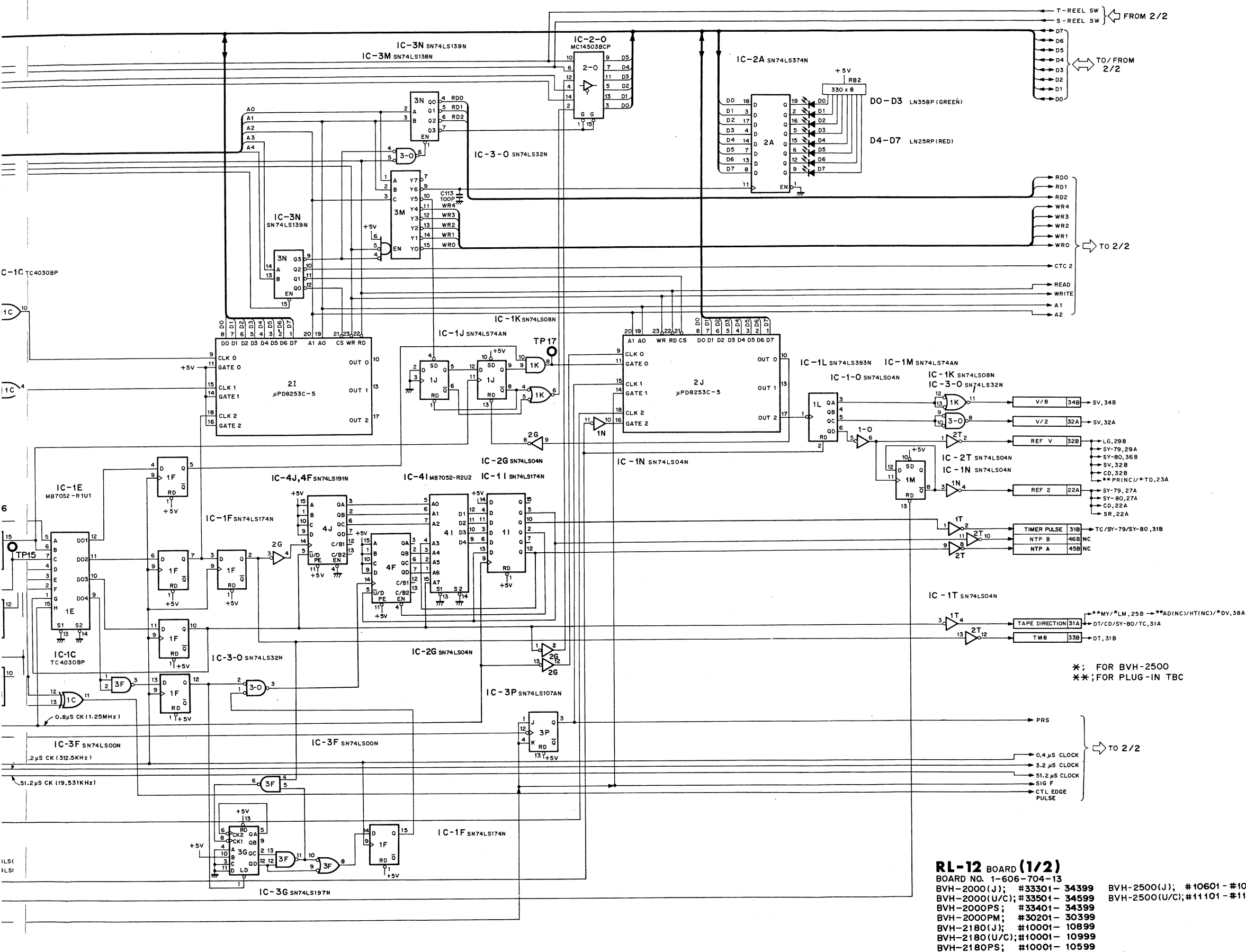
BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

(RS-19 BOARD)	IC3 5C
CN301 1M	IC3F 4F
CN302 3Q	IC3G 3M
CN303 3R	IC3N 3N
D0 2A	IC3O 3O
D1 2A	IC3P 3P
D2 2A	IC4 5D
D3 2A	
D4 1A	(RS-20 BOARD)
D5 1A	IC4F 4F
D6 1A	IC4I 4I
D7 1A	IC4J 4J
D8 5A	IC5 4E
D9 5A	IC6 4F
D10 4B	IC7 4F
D11 4B	IC8 5F
D12 4B	IC9 4G
D13 4B	IC11 4I
D14 4C	IC12 4I
D15 4C	IC13 5I
D16 4C	IC14 5I
D17 4C	IC15 4K
D18 5C	IC16 5K
D19 5B	IC17 5M
D20 4E	IC18 5M
D21 4E	IC19 4N
D22 5H	IC21 4P
D23 5H	IC22 5P
D24 5H	IC23 5R
D25 5H	IC25 4S
D26 5I	IC26 5S
D27 5I	IC27 5E
D28 5J	IC28 5G
D29 5J	IC29 5N
D40 4I	IC31 4R
D43 5H	
D44 5H	(RS-19 BOARD)
D45 5S	IC301 2M
D46 5S	IC302 2M
D47 4Q	IC303 1N
D48 4Q	IC304 1N
D50 5H	IC305 2N
D51 5H	IC306 3N
(RS-19 BOARD)	IC307 1P
D301 3P	IC308 2O
	IC309 3O
	IC310 3P
E1 4T	IC311 1R
E2 2A	IC312 2R
E3 3T	IC313 2S
E4 4A	IC314 1S
IC1 5B	Q1 5J
IC1B	
IC1C	(RS-19 BOARD)
IC1D	Q302 3Q
IC1E	
IC1F	RB1 1A
IC1G	RV1 4A
IC1H	RV2 4B
IC1I	RV3 4C
IC1J	RV4 4C
IC1K	RV5 5C
IC1L	RV6 5C
IC1M	RV7 4D
IC1N	RV8 4L
IC1O	RV9 5L
IC1P	RV10 4M
IC1Q	RV11 4M
IC1R	RV12 4S
IC1S	RV13 5S
IC1T	RV14 5A
IC2 5B	RV15 4E
IC2A	RV20 4O
IC2C	
IC2D	S1 5A
IC2E	
IC2F	TP1 5A
IC2G	TP2 5A
IC2I	TP3 1B
IC2J	TP4 5C
IC2L	TP5 4E
IC2M	TP6 1F
IC2N	TP7 5H
IC2O	TP8 5I
IC2P	TP9 5K
IC2Q	TP10 5L
IC2R	TP11 4N
IC2S	TP12 4S
IC2T	TP13 4L
	TP14 2B
	TP15 2E
	TP16 3F
	TP17 3I
	TP18 4N
	TP19 2A
	TP20 3A
	TP21 3A

RL-12 BOARD (1/2)

Reel Servo



**RL-12 BOARD (1/2)**

BOARD NO. 1-606-704-13

BVH-2000(J): #33301- 34399 BVH-2500(J); #10601 - #10799

BVH-2000(U/C);#33501- 34599 BVH-2500(U/C);#11101- #11399

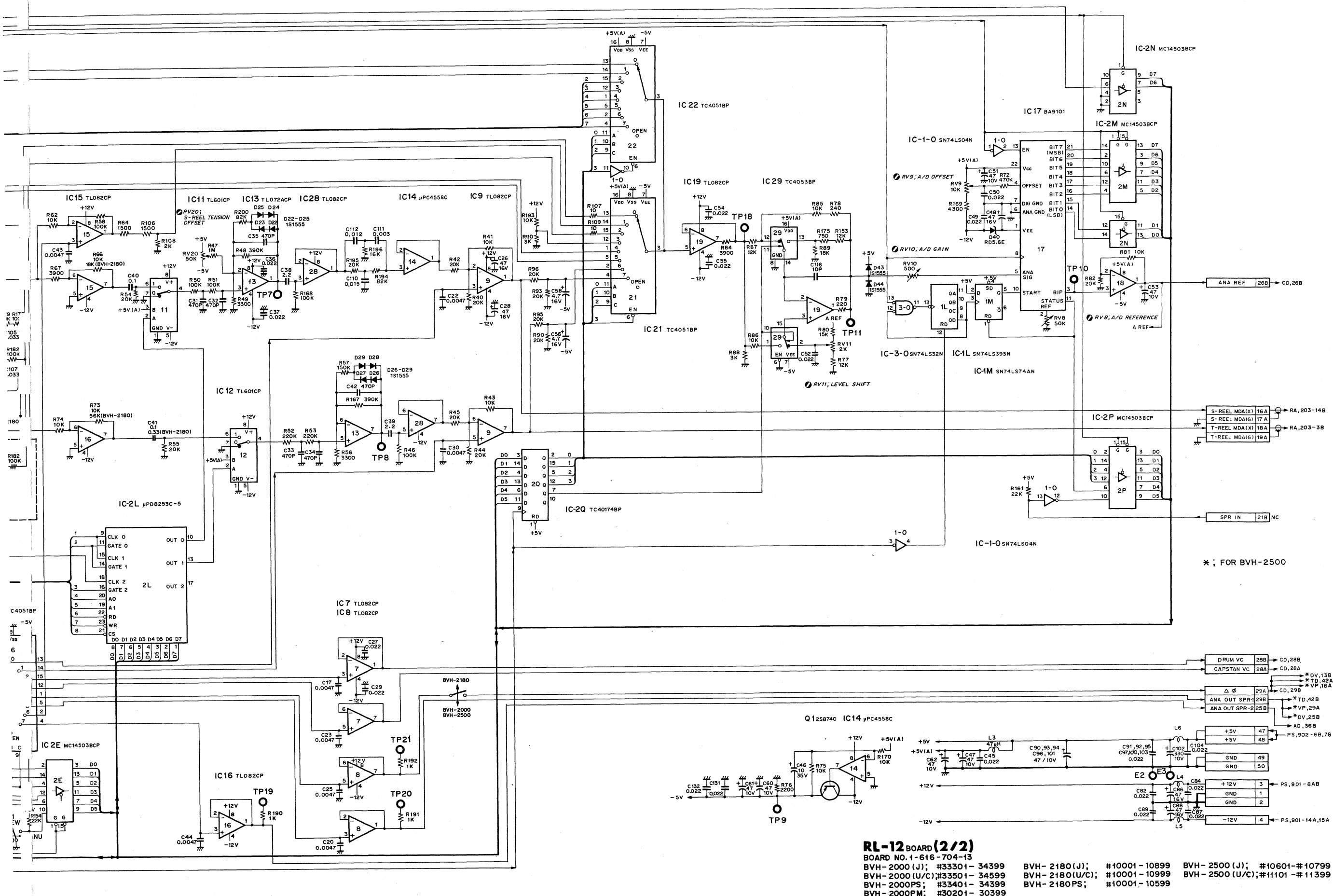
BVH-2000PS; #33401- 34399

BVH-2000PM; #30201- 30399

BVH-2180(J); #10001- 10899

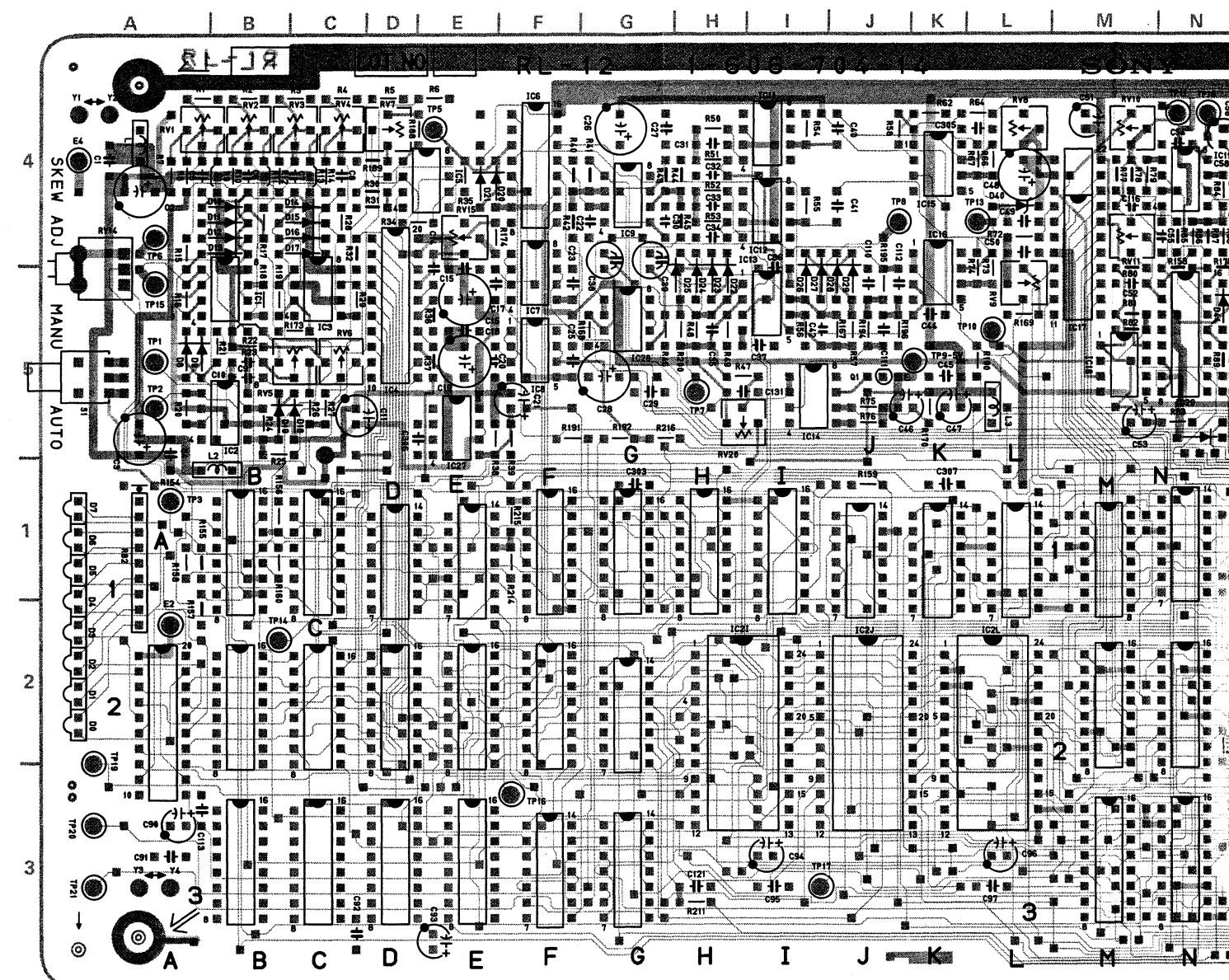
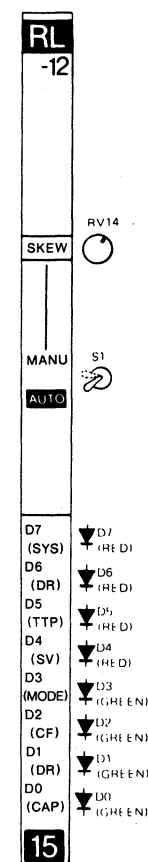
BVH-2180(U/C);#10001- 10999

BVH-2180PS; #10001- 10599

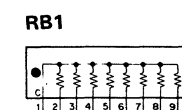


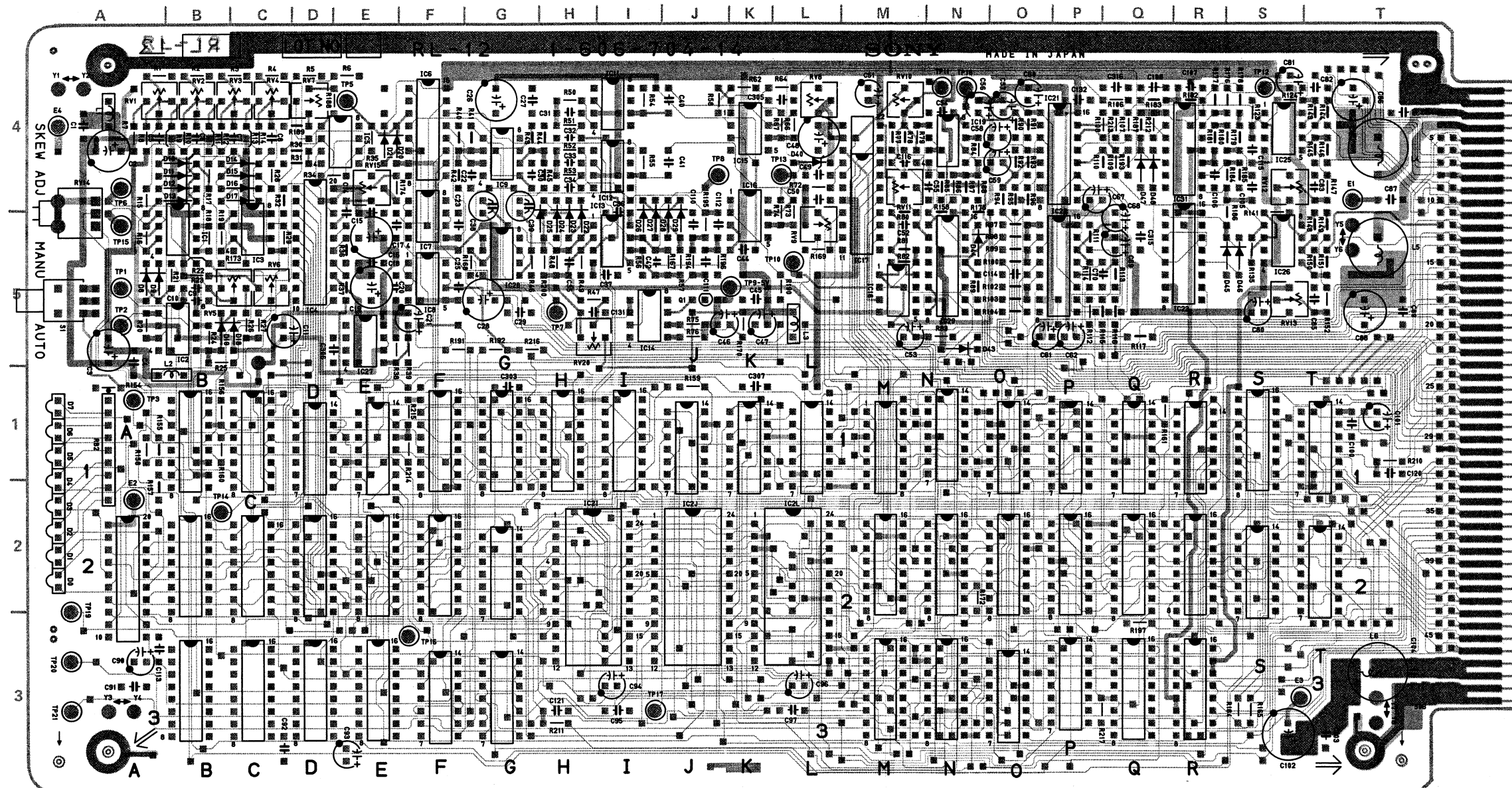
RL-12 BOARD (1-606-704-14)

Component Side



1-606-704-14 COMPONENT SIDE

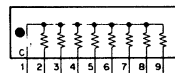




1-606-704-14 COMPONENT SIDE

1-606-704-14 SOLDER SIDE

RB1



RL-12 (1-606-704-14 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM(RS-19 BOARD)
IC3 5C
CN301 1M
IC3F
CN302 3Q
IC3G
CN303 3R
IC3M
IC3N
IC3O
IC3P

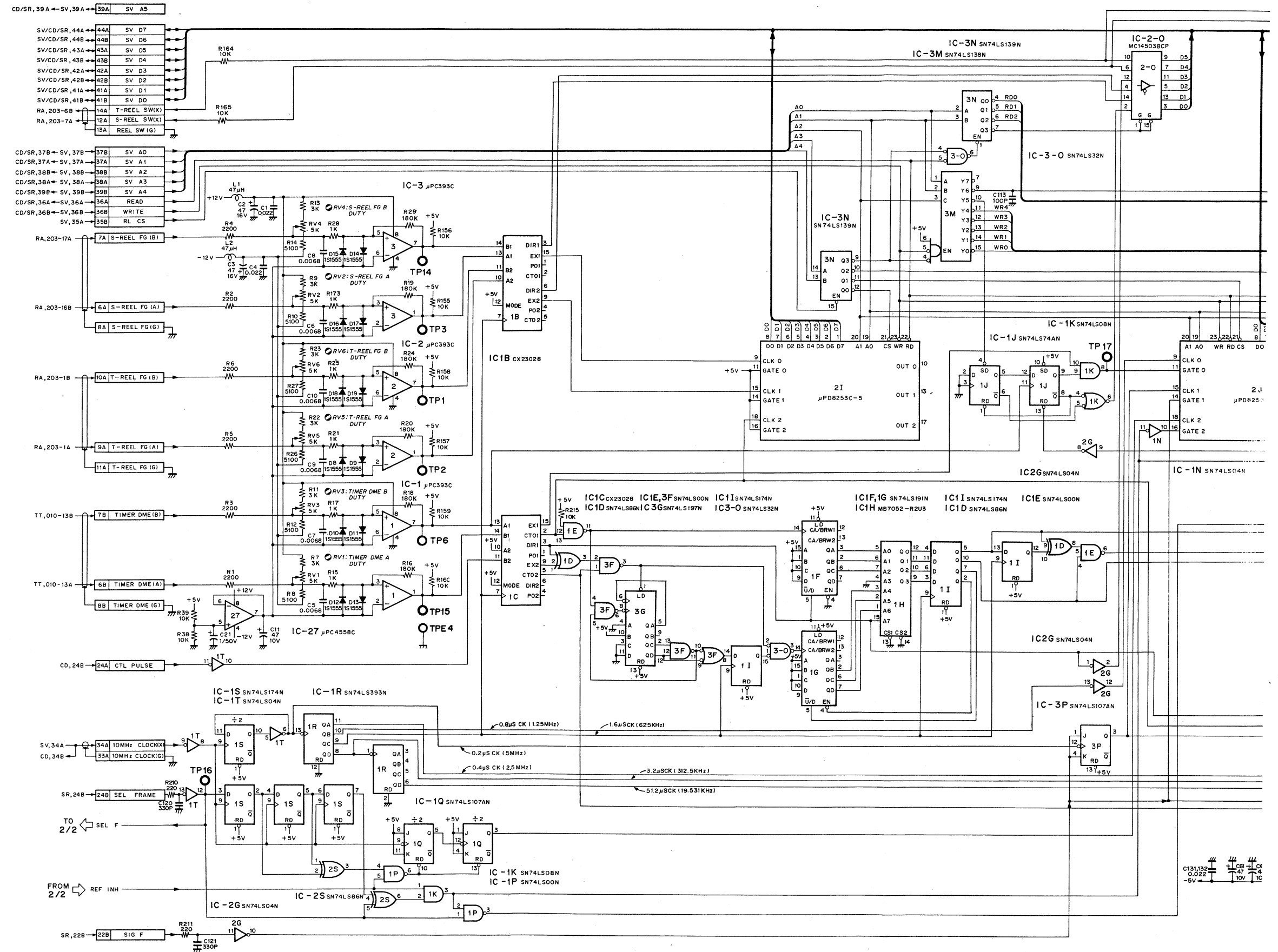
D0	2A	IC3	5C
D1	2A	IC3F	
D2	2A	IC3G	
D3	2A	IC3M	
D4	1A	IC3N	
D5	1A	IC3O	
D6	1A	IC3P	
D7	1A	IC3Q	5D
D8	5A	IC3R	
D9	5A	IC3S	
D10	4B	IC3T	
D11	4B	IC3U	
D12	4B	IC3V	
D13	4B	IC3W	
D14	4C	IC3X	
D15	4C	IC3Y	
D16	4C	IC3Z	
D17	4C	IC3A	
D18	5C	IC3B	
D19	5C	IC3C	
D20	5C	IC3D	
D21	4E	IC3E	
D22	5H	IC3F	
D23	5H	IC3G	
D24	5H	IC3H	
D25	5H	IC3I	
D26	5I	IC3J	
D27	5I	IC3K	
D28	5J	IC3L	
D29	5J	IC3M	
D30	4I	IC3N	
D31	5N	IC3O	
D32	5N	IC3P	
D33	5N	IC3Q	
D34	5N	IC3R	
D35	5N	IC3S	
D36	5N	IC3T	
D37	4Q	IC3U	
D38	4Q	IC3V	
D39	4Q	IC3W	
D40	5H	IC3X	
D41	5H	IC3Y	
D42	5H	IC3Z	
D43	5H	IC3A	
D44	5H	IC3B	
D45	5H	IC3C	
D46	5H	IC3D	
D47	5H	IC3E	
D48	5H	IC3F	
D49	5H	IC3G	
D50	5H	IC3H	
D51	5H	IC3I	

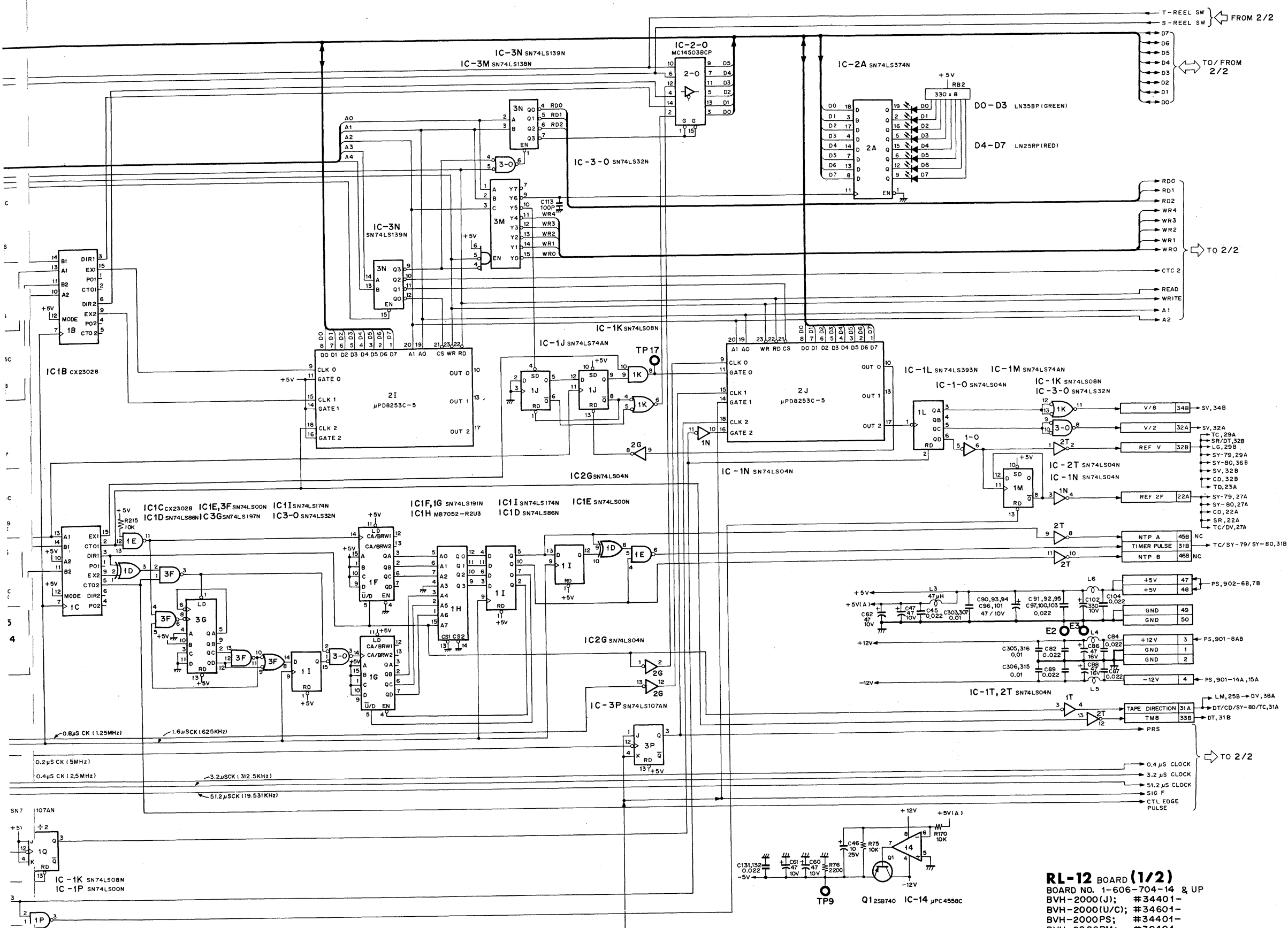
(RS-19 BOARD)
IC301 2M
IC302 2M
IC303 1M
IC304 1N
IC305 2N
IC306 3N
IC307 1P
IC308 2O
IC309 3O
IC310 3P
IC311 1R
IC312 2R
IC313 2S
IC314 1S

D301	3P	IC315	1S
D302	3Q	IC316	1S
E1	4T	Q1	5J
E2	2A	RB2	1A
E3	3T		
E4	4A		
IC1	5B	RV1	4A
IC1B		RV2	4B
IC1C		RV3	4C
IC1D		RV4	4C
IC1E		RV5	5C
IC1F		RV6	5C
IC1G		RV7	4D
IC1H		RV8	4L
IC1I		RV9	5L
IC1J		RV10	4M
IC1K		RV11	4M
IC1L		RV12	4S
IC1M		RV13	5S
IC1N		RV14	5A
IC1O		RV15	4E
IC1P		RV20	5H
IC1Q			
IC1R		S1	5A
IC1S		TP1	5A
IC1T		TP2	5A
IC1U		TP3	1B
IC1V		TP4	5E
IC1W		TP5	4A
IC1X		TP6	4A
IC1Y		TP7	5H
IC1Z		TP8	5J
IC2	5B	TP9	5K
IC2A		TP10	5L
IC2B		TP11	4N
IC2C		TP12	4S
IC2D		TP13	4L
IC2E		TP14	2B
IC2F		TP15	5A
IC2G		TP16	3F
IC2H		TP17	3I
IC2I		TP18	4N
IC2J		TP19	2A
IC2K		TP20	5A
IC2L		TP21	5A

RL-12 BOARD (1/2)

Reel Servo

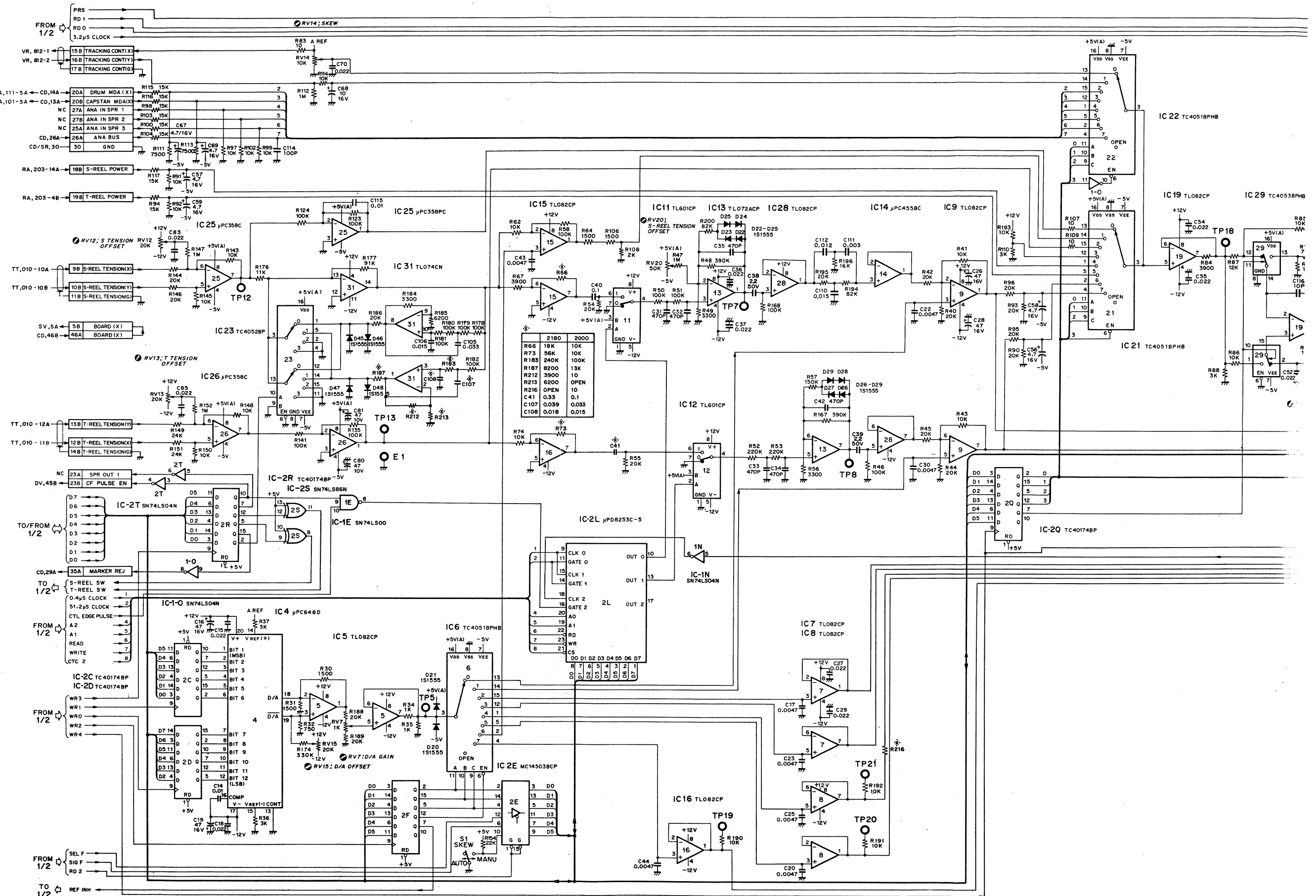


**RL-12 BOARD (1/2)**

BOARD NO. 1-606-704-14 & UP
 BVH-2000(J); #34401-
 BVH-2000(U/C); #34601-
 BVH-2000PS; #34401-
 BVH-2000PM; #30401-
 BVH-2180(J); #10901-
 BVH-2180PS; #10601-
 BVH-2180PM; #10001-

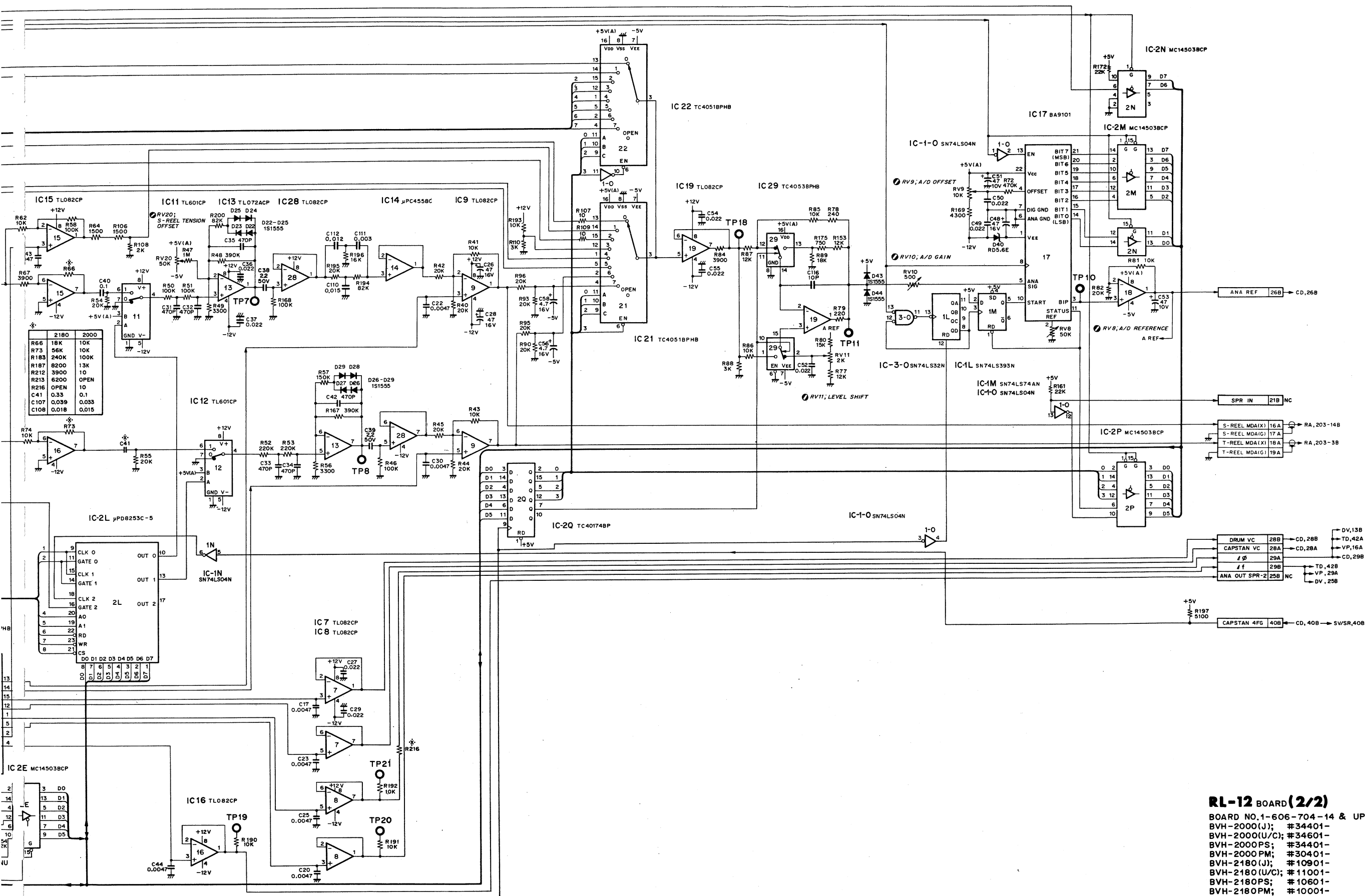
RL-12 BOARD (2/2)

Reel Servo



C-77(11/13)

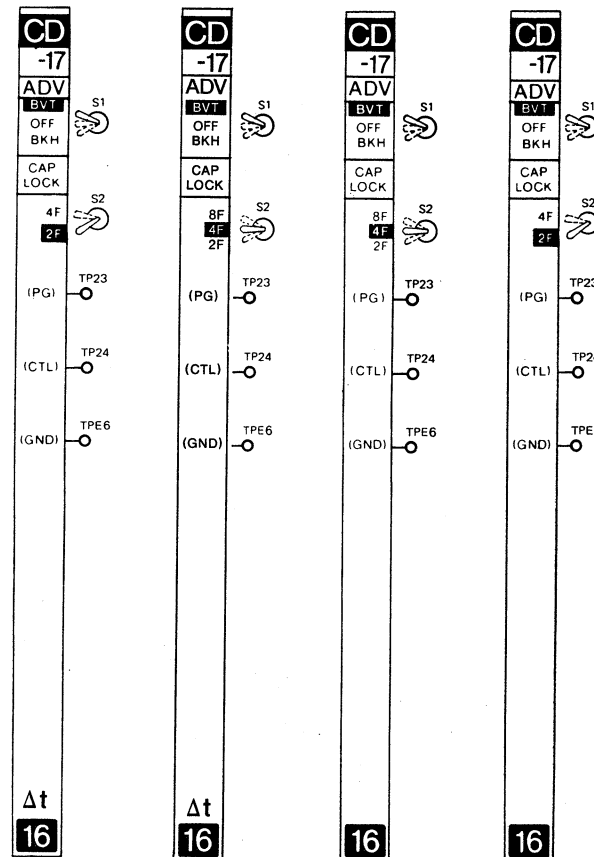
C-77(12/13)

**RL-12 BOARD (2/2)**

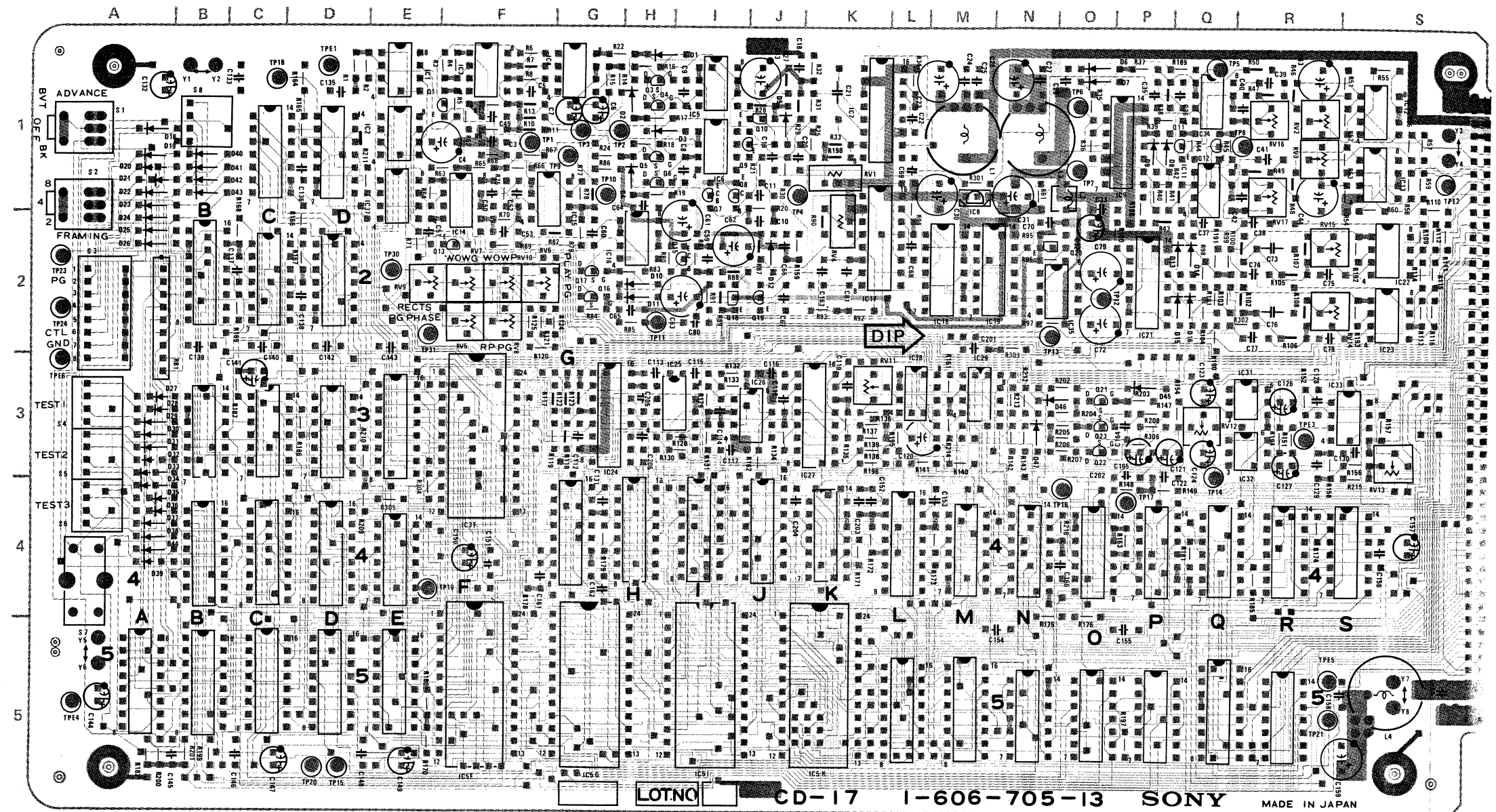
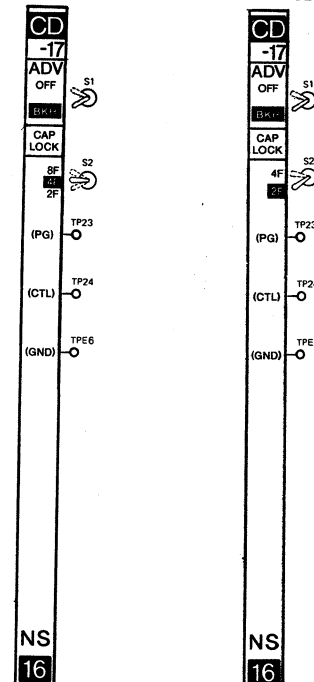
BOARD NO.1-606-704-14 & UP
BVH-2000(J); #34401-
BVH-2000(U/C); #34601-
BVH-2000PS; #34401-
BVH-2000PM; #30401-
BVH-2180(J); #10901-
BVH-2180(U/C); #11001-
BVH-2180PS; #10601-
BVH-2180PM; #10001-

CD-17 BOARD (1-606-705-13) Component Side

BVH-2500 BVH-2500P BVH-2000PS/PM BVH-2000
BVH-2180PS/PM BVH-2180



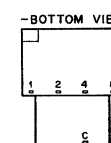
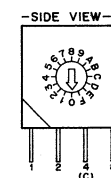
BVH-2000PS (For 10/12/14 MODEL) BVH-2000 (For 10/12 MODEL)



1-606-705-13 COMPONENT SIDE

1-606-705-13 SOLDER SIDE

S4, 5, 6

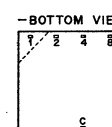
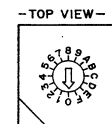


TYPE S-1041

POSITION	PIN NO.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

O=ON

S8

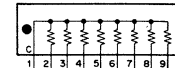


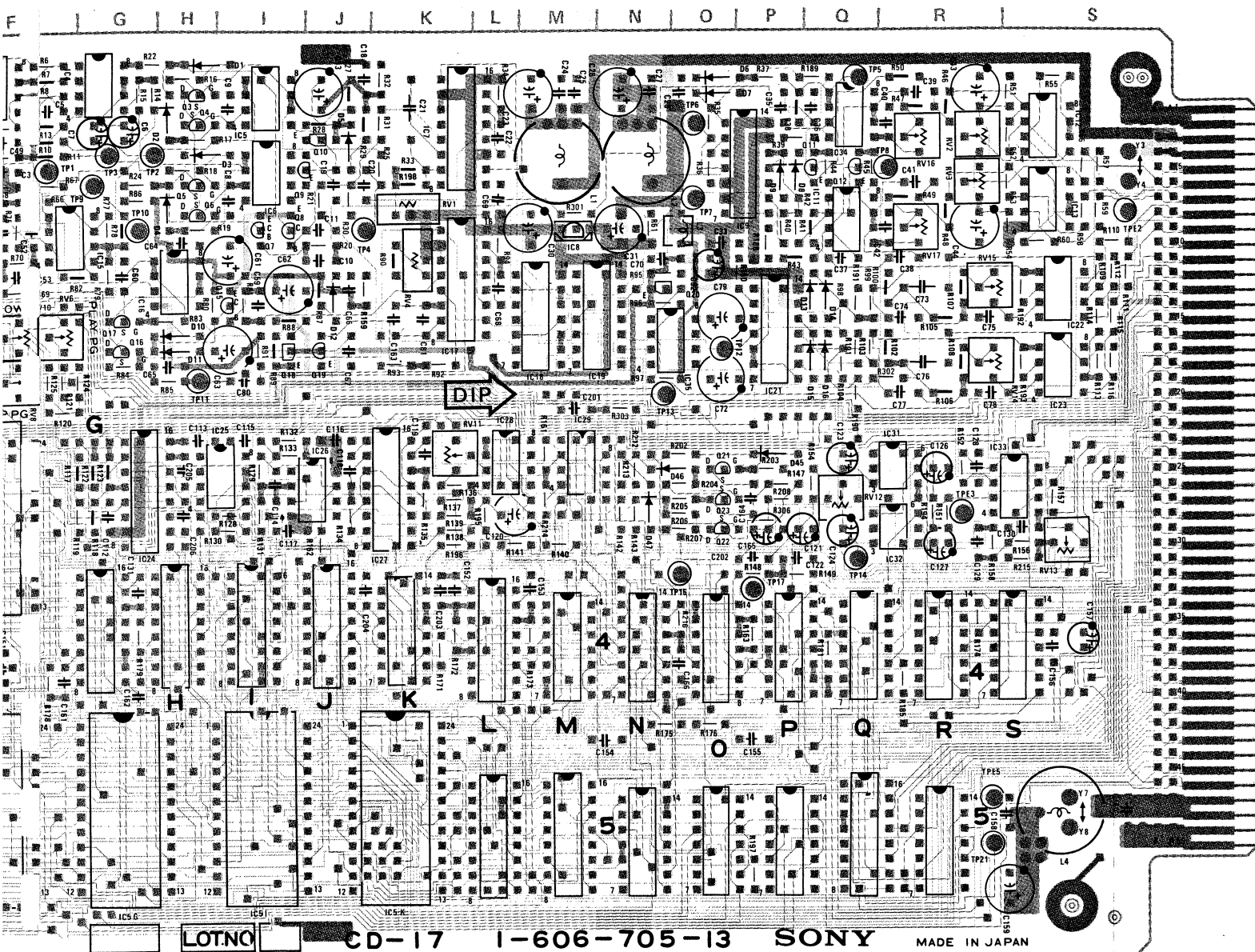
TYPE S-1040

POSITION	PIN NO.
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3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

O=ON

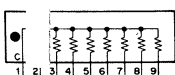
RB1





1-606-705-13 SOLDER SIDE

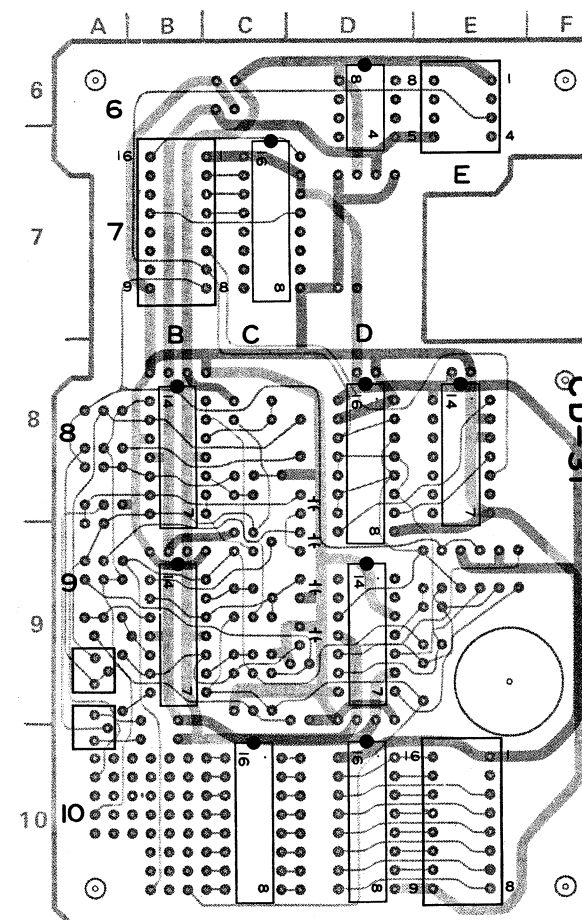
RB1



C-79

CD-31 BOARD (1-613-995-11)

Solder Side



1-613-995-11 COMPONENT SIDE

1-613-995-11 SOLDER SIDE

FOR BVH-2500P

CD-17 (1-606-705-13)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

(PS/P)	IC5	11	RV1	1K
CV1	3R		RV2	1R
D1	1H		RV3	1R
D2	1H		RV4	2K
D3	1H		RV5	2F
D4	1H		RV6	2F
D5	1J		RV7	2F
D6	10	(NTSC/PS/PM)	RV8	2F
D7	10	IC3F	RV9	2E
D8	1P	IC5G	RV10	2F
D9	1P	IC5I	RV11	3K
D10	2H	IC5K	RV12	3Q
D11	2H	IC5L	RV13	3S
D12	2J	IC5M	RV14	2R
D13	20	IC5N	RV15	2R
D14	20	IC5O	RV16	1R
D15	20	IC5P	RV17	1R
D16	20	IC5Q		
D18	1A	IC5R	(CD-31 BOARD)	
D19	1A	IC6	RV401	9A
D20	1A	IC7	RV402	9A
D21	1A		S1	1A
D22	1A	(CD-31 BOARD)	S2	1A
D23	1A	IC7C	S3	2A
D24	2A		S4	3A
D25	2A	IC8	S5	3A
D26	2A	IC8M	S6	4A
D27	3A	(CD-31 BOARD)	S7	4A
D28	3A	IC8B	S8	1B
D29	3A	IC8D		
D30	3A	IC8E	TP1	1F
D31	3A	IC9	TP2	1G
D32	3A		TP3	1G
D33	3A	(CD-31 BOARD)	TP4	1J
D34	4A	IC9B	TP5	1Q
D35	4A	IC9D	TP6	1Q
D36	4A	IC9F	TP7	1Q
D37	4A	IC100	TP8	1R
D38	4A		TP9	1G
D39	4A	IC11	TP10	1G
D40	1B	IC12	TP11	2H
D41	1B	IC13	TP12	2Q
D42	1B	IC14	TP13	2N
D43	1B	IC15	TP14	3Q
		IC16	TP15	5Q
(PS-P)		IC17	TP16	4Q
D44	4A	IC18	TP17	4P
D45	3P	IC19	TP18	1C
D46	3N	IC21	TP19	4E
		IC22	TP20	5Q
D47	3N	IC23	TP21	5R
(CD-31 BOARD)		IC24	TP22	2A
D401	9A	IC25	TP23	2A
D402	9C	IC26	TP24	2A
D403	9D		TP30	2E
D404	9D	(PS/P)	TP31	2E
		IC27		
IC1	1E	(CD-31 BOARD)		
IC1C		TP401	10A	
IC1D		TP402	10A	
IC2	1E	TP403	10B	
		TP404	10B	
(NTSC/PS/PM)				
IC2B		TP51	1D	
IC2C		TP52	1S	
IC2D		TP53	3R	
IC3	1F	TP54	5A	
IC3B		TP55	5R	
IC3C		TP56	3A	
IC3D				
IC3E				
IC3F				
IC4	1G			
IC4B				
IC4C				
IC4D				
IC4E				
IC4G				
IC4H				
IC4I				
IC4J				
IC4K				
IC4L				
IC4M				
IC4N				
IC4O				
IC4P		(PS/P)		
IC4Q		Q23	3Q	
IC4R				
IC4S		RB1	2A	

BVH-2500/P

C-109

C-110

BVH-2000/PS/PM

C-78

C-79

C-80

C-80

CD-17 BOARD (1/2)

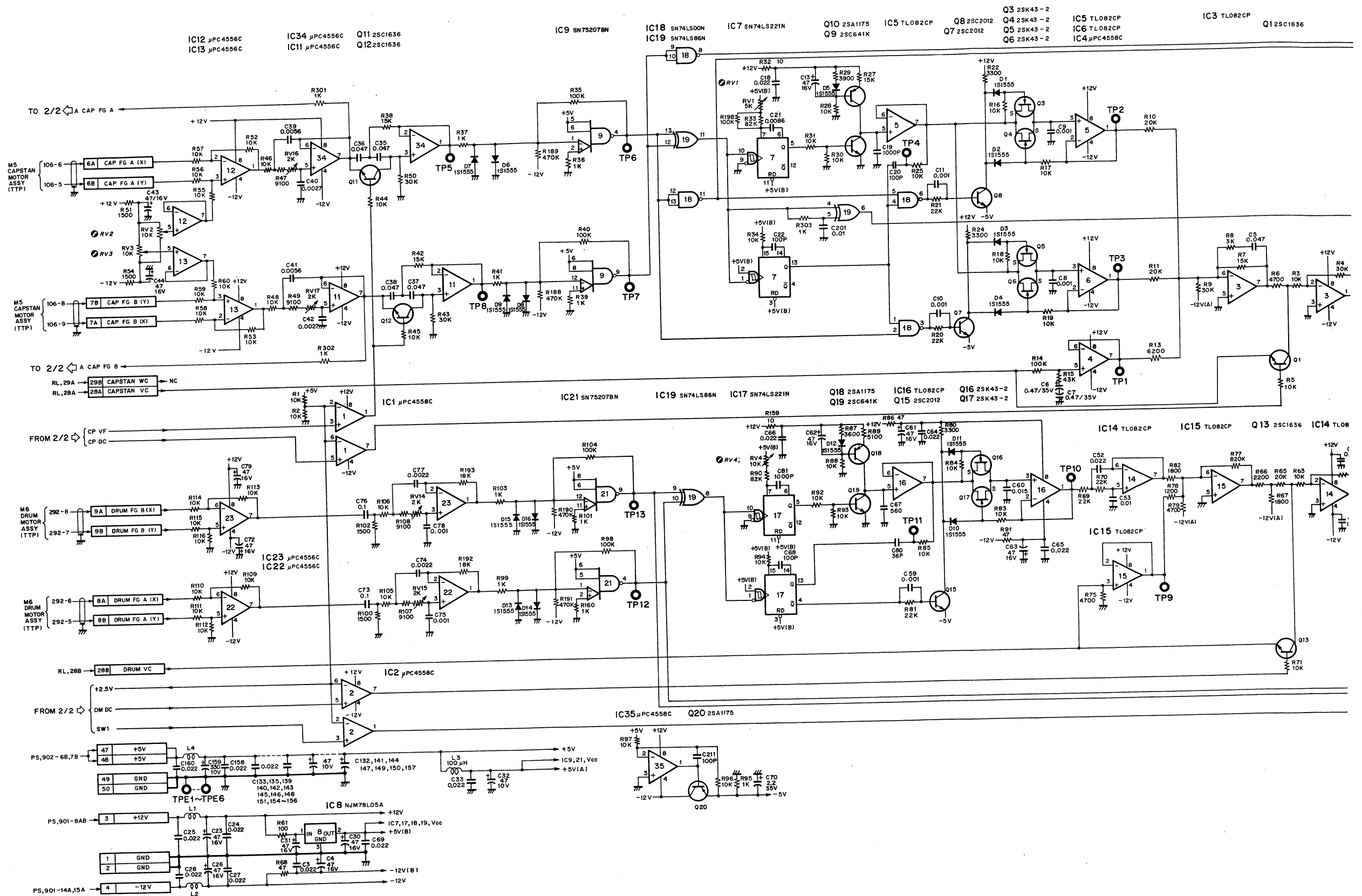
Capstan/Drum Servo

2500(J); #10001 - 10799 1-606-705-13
2500(U/C); #10001 - 11399

CARD RACK CD-17 (1/2)

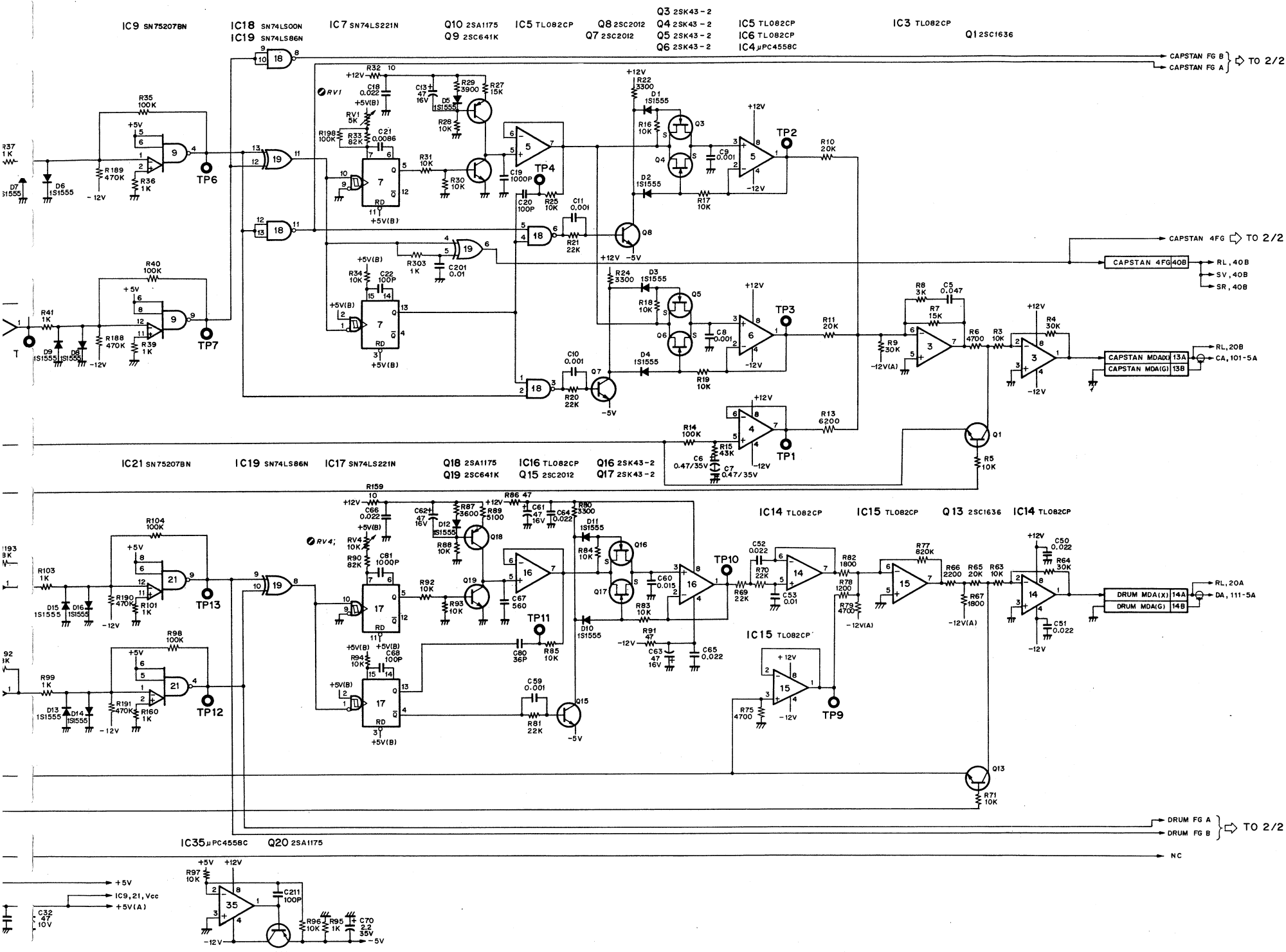
CD-17 (1/2) CARD RACK

1-606-705-13 2500(J); #10001 - 10799
2500(U/C); #10001 - 11399



C-81

C-82



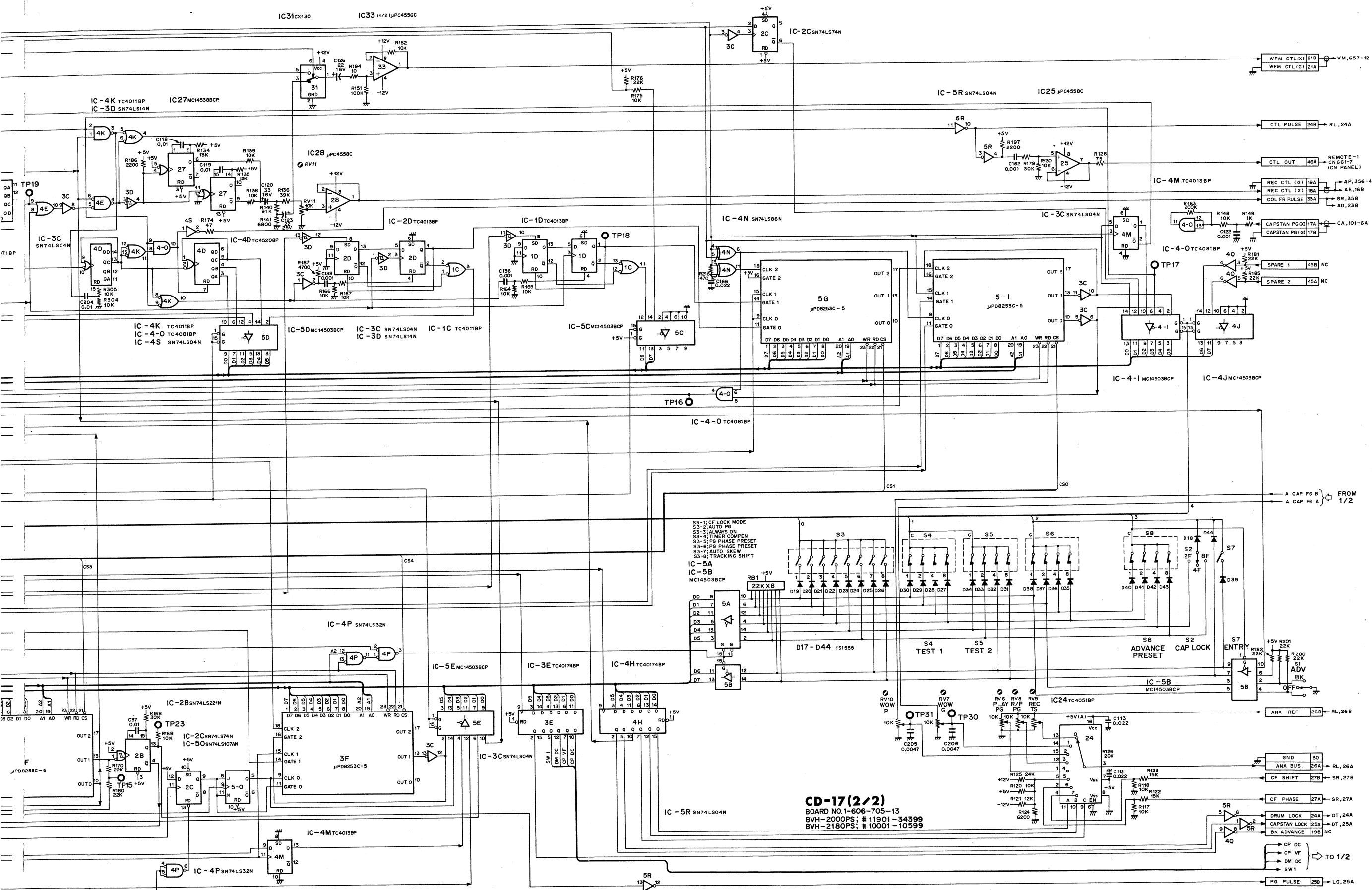
Capstan/Drum Servo

CARD RACK **CD-17 (2/2)**

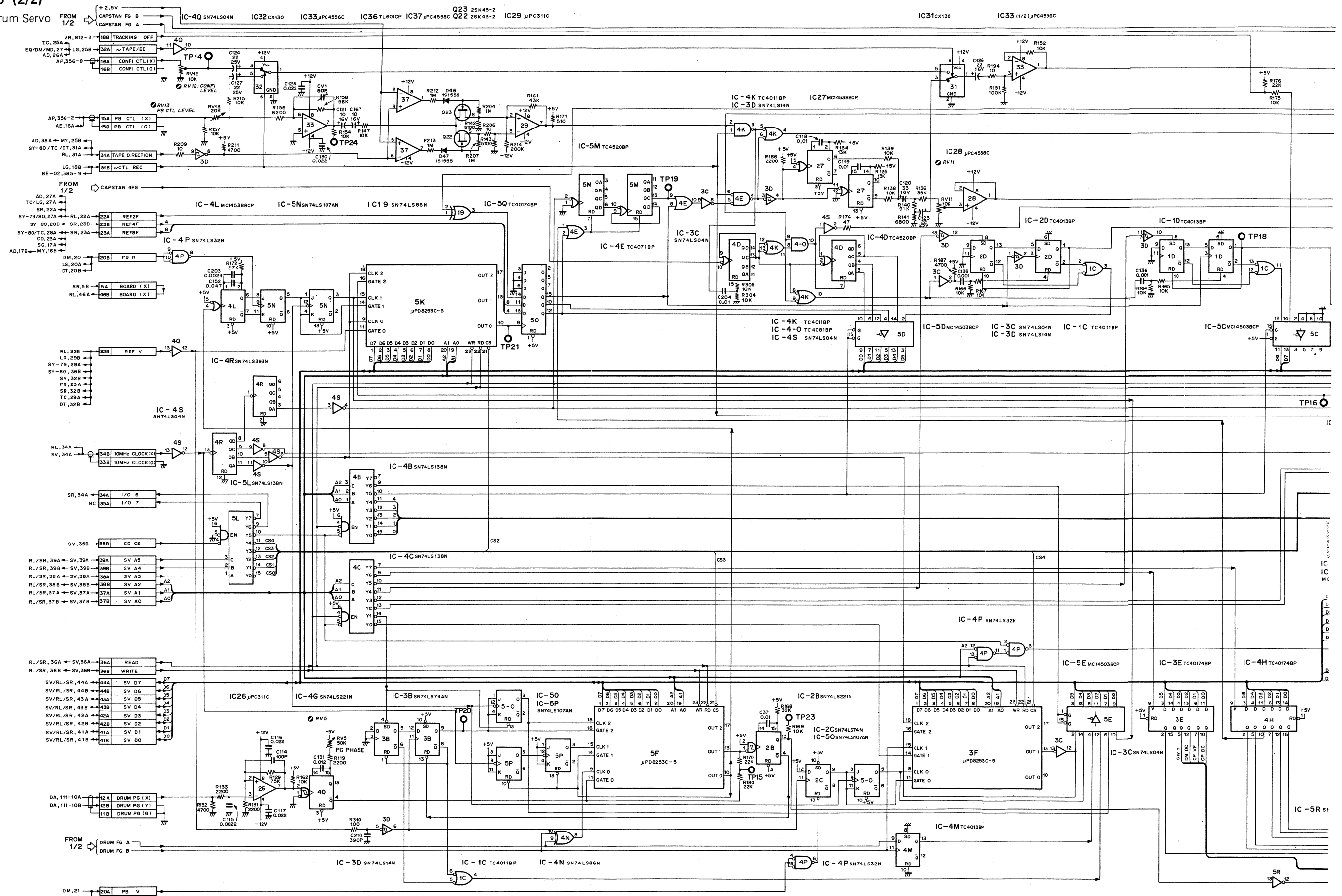
CD-17 (2/2) CARD RACK

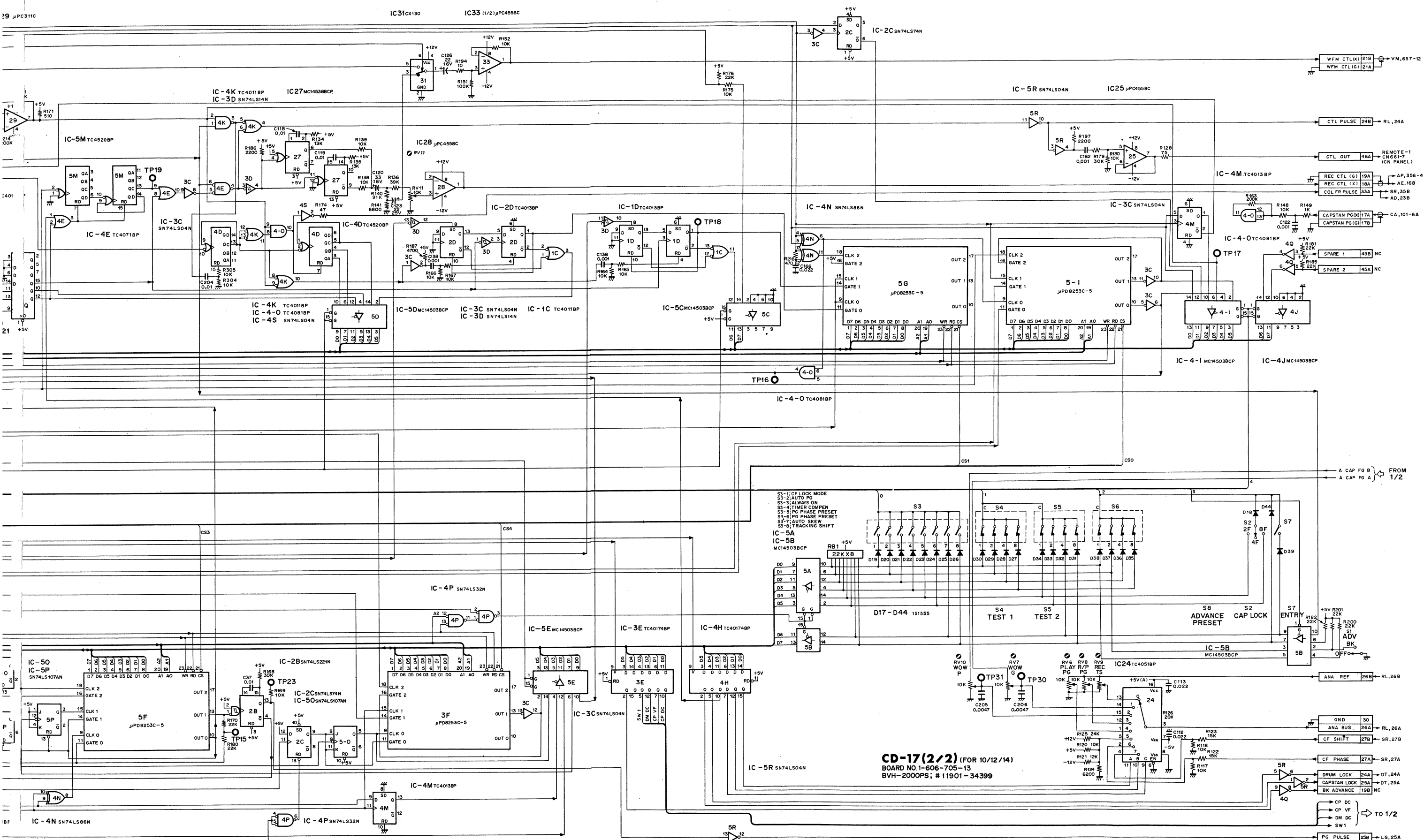
1-606-705-13 2500(J); #10001 – 10799
2500(U/C); #10001 – 11399





Capstan/Drum Servo

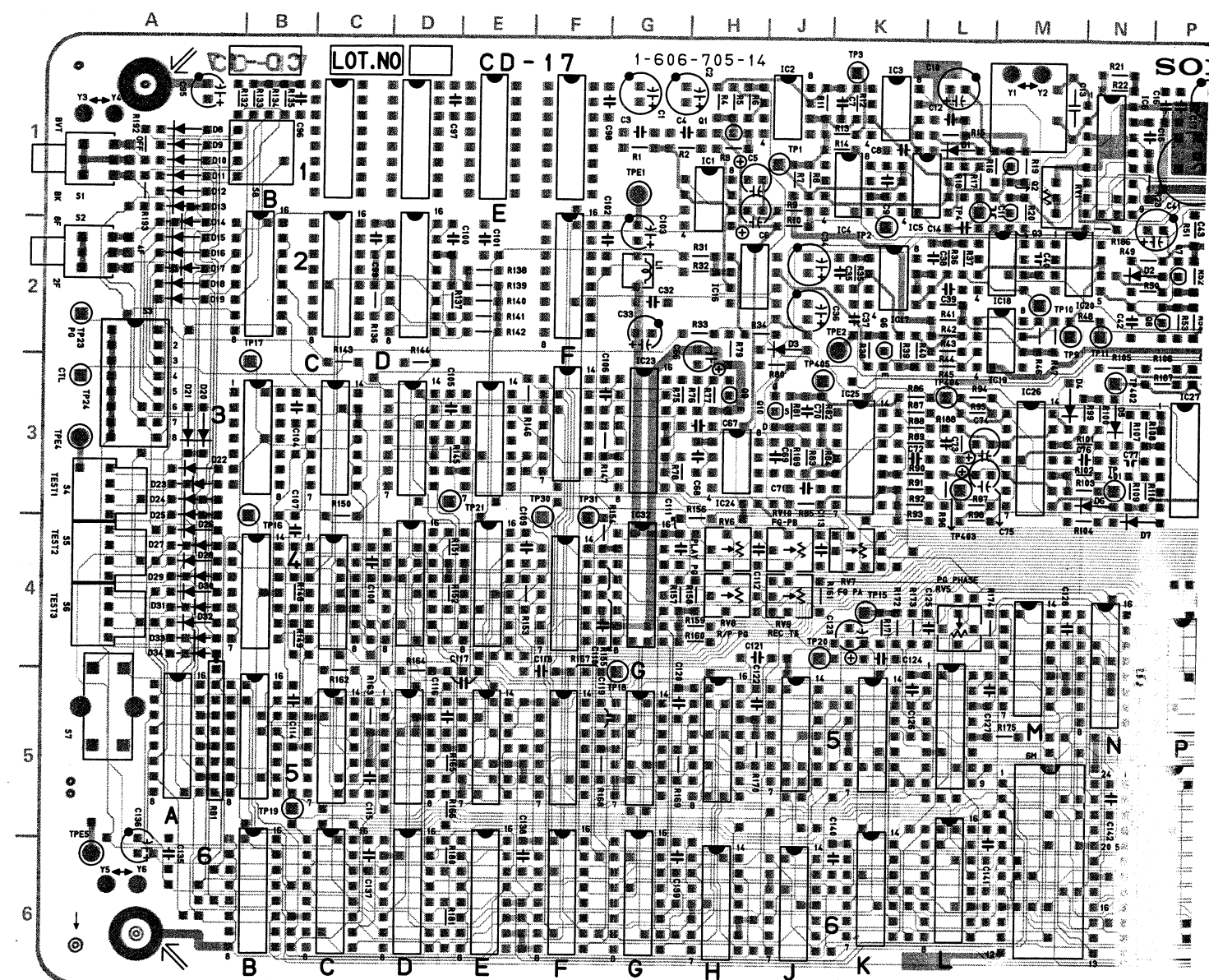
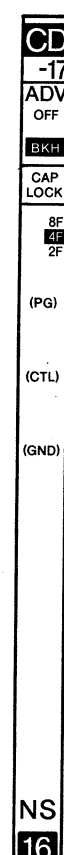
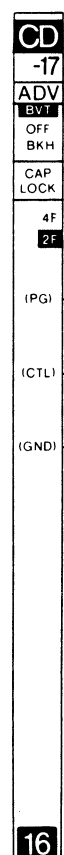
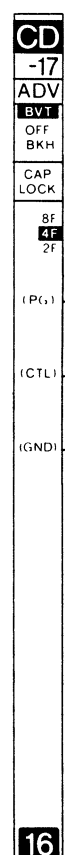
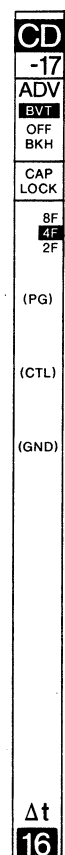




CD-17 BOARD (1-606-705-14) Component Side

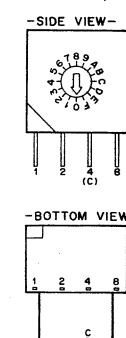
BVH-2500

BVH-2500P

BVH-2000PS/PM
BVH-2180PS/PMBVH-2000
BVH-2180BVH-2000PS
(For 10/12/14 MODEL)BVH-2000
(For 10/12 MODEL)

1-606-705-14 COMPONENT SIDE

S4, 5, 6

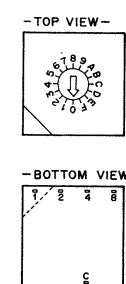


TYPE S-1041

POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

O=ON

S8

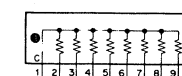


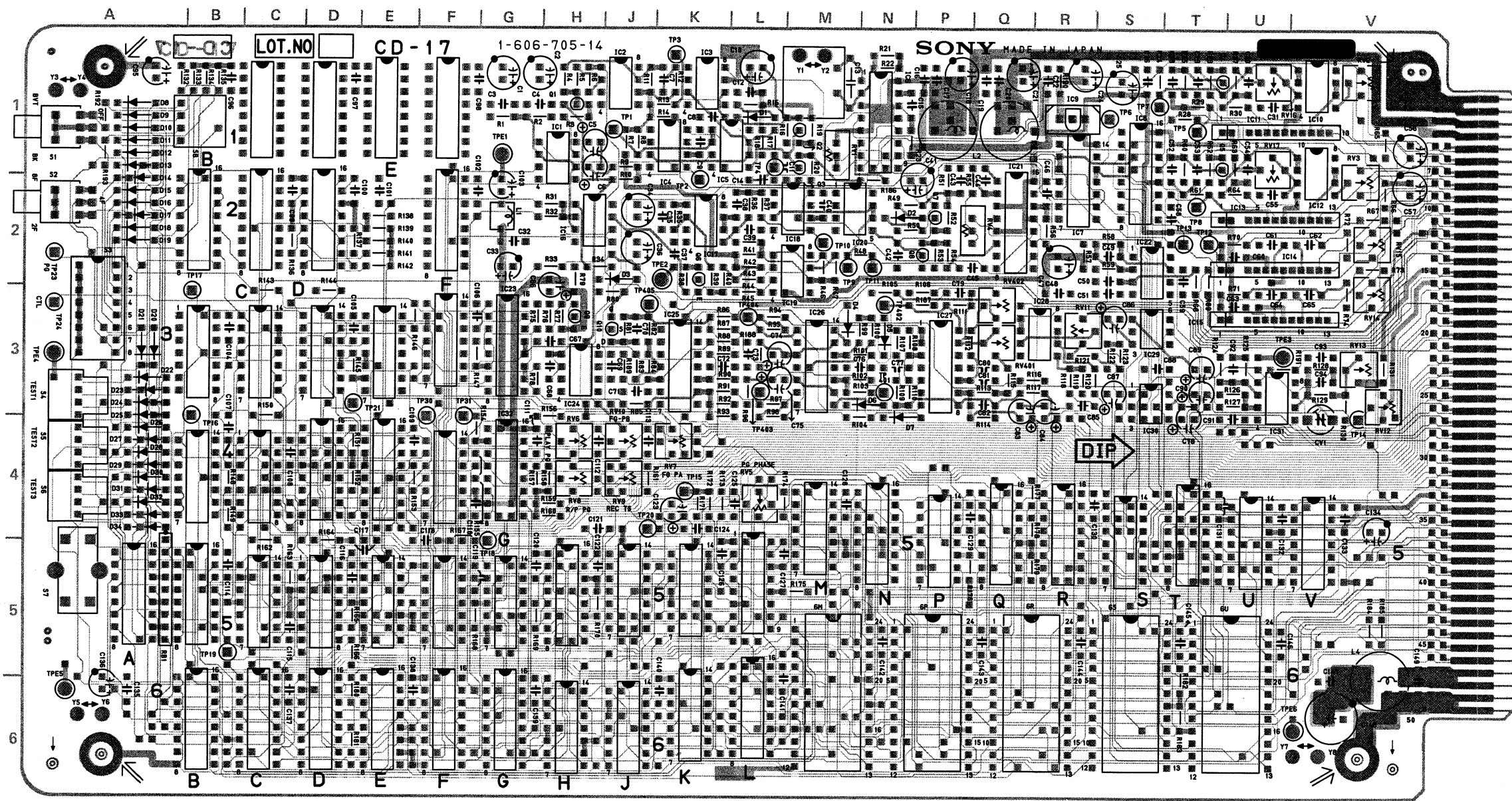
TYPE S-1040

POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16

O=ON

RB1



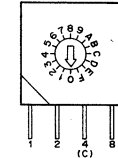


1-606-705-14 COMPONENT SIDE

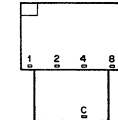
1-606-705-14 SOLDER SIDE

S4, 5, 6

-SIDE VIEW-



-BOTTOM VIEW-



TYPE S-1041



POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
A	10
B	11
C	12
D	13
E	14
F	15

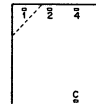
O=ON

S8

-TOP VIEW-



-BOTTOM VIEW-



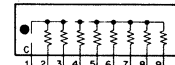
TYPE S-1040



POSITION	PIN NO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
A	10
B	11
C	12
D	13
E	14
F	15

O=ON

RB1



C-89(9/25)

CD-17 (1-606-705-14 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

(PS/P)

CV1 3V

D1 1L

D2 2N

D3 2J

(PS/P)

D4 3M

D5 3N

D6 3N

D7 3N

D8 1A

D9 1A

D10 1A

D11 1A

D12 1A

D13 1A

D14 1A

D15 2A

D16 2A

D17 2A

D18 2A

D19 2A

(PS/P)

D20 3A

D21 3A

D22 3A

D23 3A

D24 3A

D25 3A

D26 4A

D27 4A

D28 4A

D29 4A

D30 4A

D31 4A

D32 4A

D33 4A

D34 4A

IC1 1H

IC2 1E

IC2B

(PS/P)

IC2D

IC3 1K

IC3C

IC3D

IC3E

(PS/P)

IC3F

IC4 1K

IC4B

IC4C

IC4D

IC4E

IC4F

IC5 1L

IC5A

IC5B

IC5C

IC5D

IC5E

IC5F

IC5G

IC5H

IC5J

IC5K

IC5L

IC5M

IC5N

IC5P

IC5Q

IC5R

IC5S

IC5T

IC5U

IC5V

IC6 1N

IC6B

IC6C

IC6D

IC6E

IC6F

IC6G

IC6H

IC6J

IC6K

IC6L

IC6M

IC6P

IC6R

IC6S

IC6T

IC6U

IC7 2R

IC8 1S

IC9 1R

IC10 1V

IC11 1U

IC12 2V

IC13 2U

IC14 2V

IC15 3U

IC16 2H

IC17 2K

IC18 2M

IC19 2N

IC20 2L

IC21 2O

IC22 2S

(PS/P)

IC23 3G

IC24 3H

IC25 3K

(PS/P)

IC26 3M

IC27 3P

IC28 3R

IC29 3S

IC30 3S

IC31 3U

IC32 3G

(PS/P)

TP1 1J

TP2 1K

TP3 1K

TP4 1L

TP5 1T

TP6 1S

TP7 1S

TP8 1S

TP9 2M

TP10 2M

TP11 2N

TP12 2T

TP13 2T

TP14 3V

TP15 4K

TP16 4B

TP17 2B

TP18 5G

TP19 5B

TP20 4J

TP21 3E

TP22 2A

TP23 2A

TP24 3A

TP30 3F

TP31 3F

TP401 3F

(PS/P)

TP402 3N

TP403 3L

TP404 3L

TP405 3J

TPE1 1G

TPE2 2J

TPE3 3U

TPE4 3A

TPE5 6A

TPE6 6V

C-89(10/25)

C-89(9/1)

C-89(8/25)

C-89(8/25)

C-89(8/25)

C-89(8/25)

C-89(8/25)

C-89(8/25)

C-89(8/25)

C-89(8/25)

C-89(8/25)

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C-89(8/25)

C-89(8/25)

C-89(8/25)

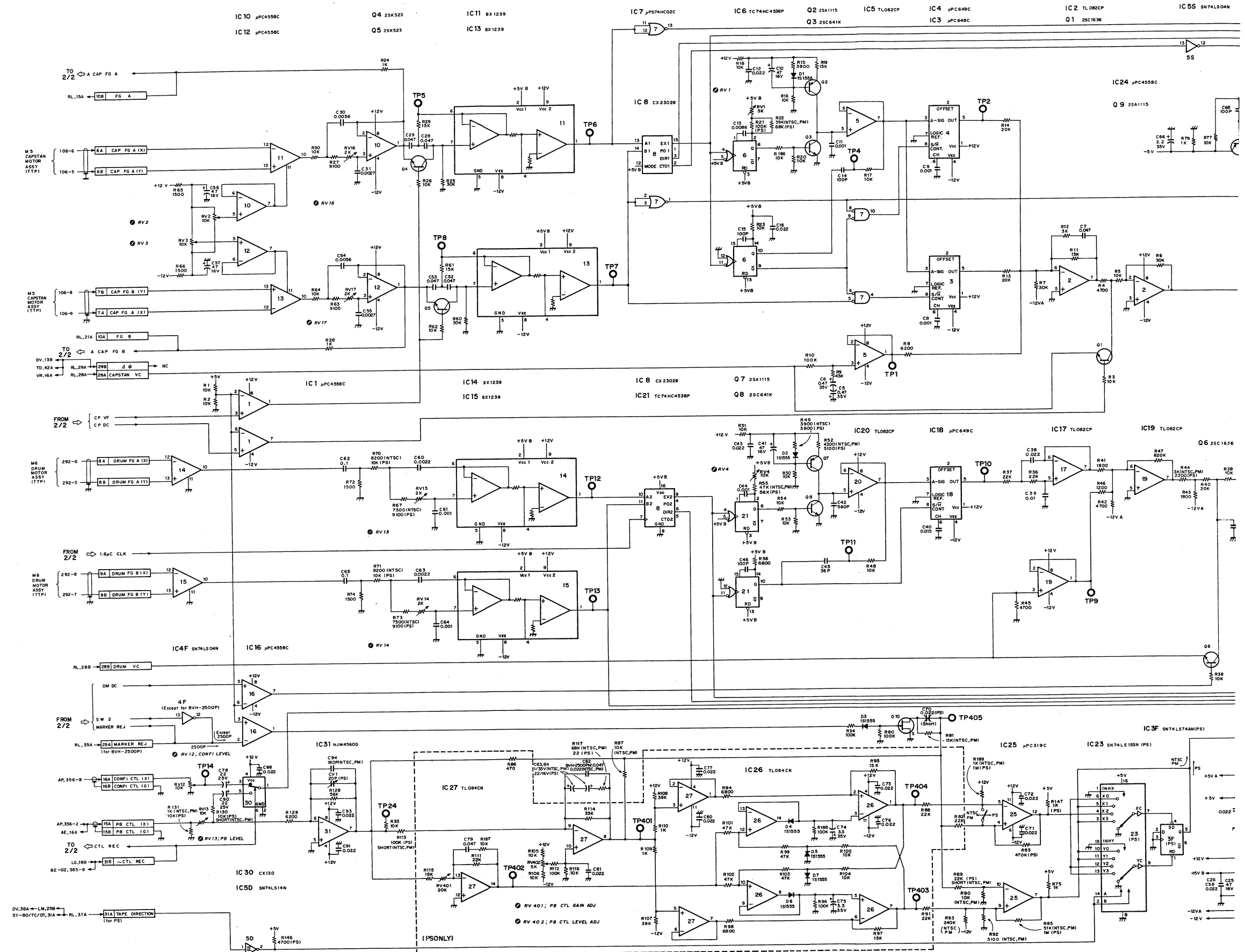
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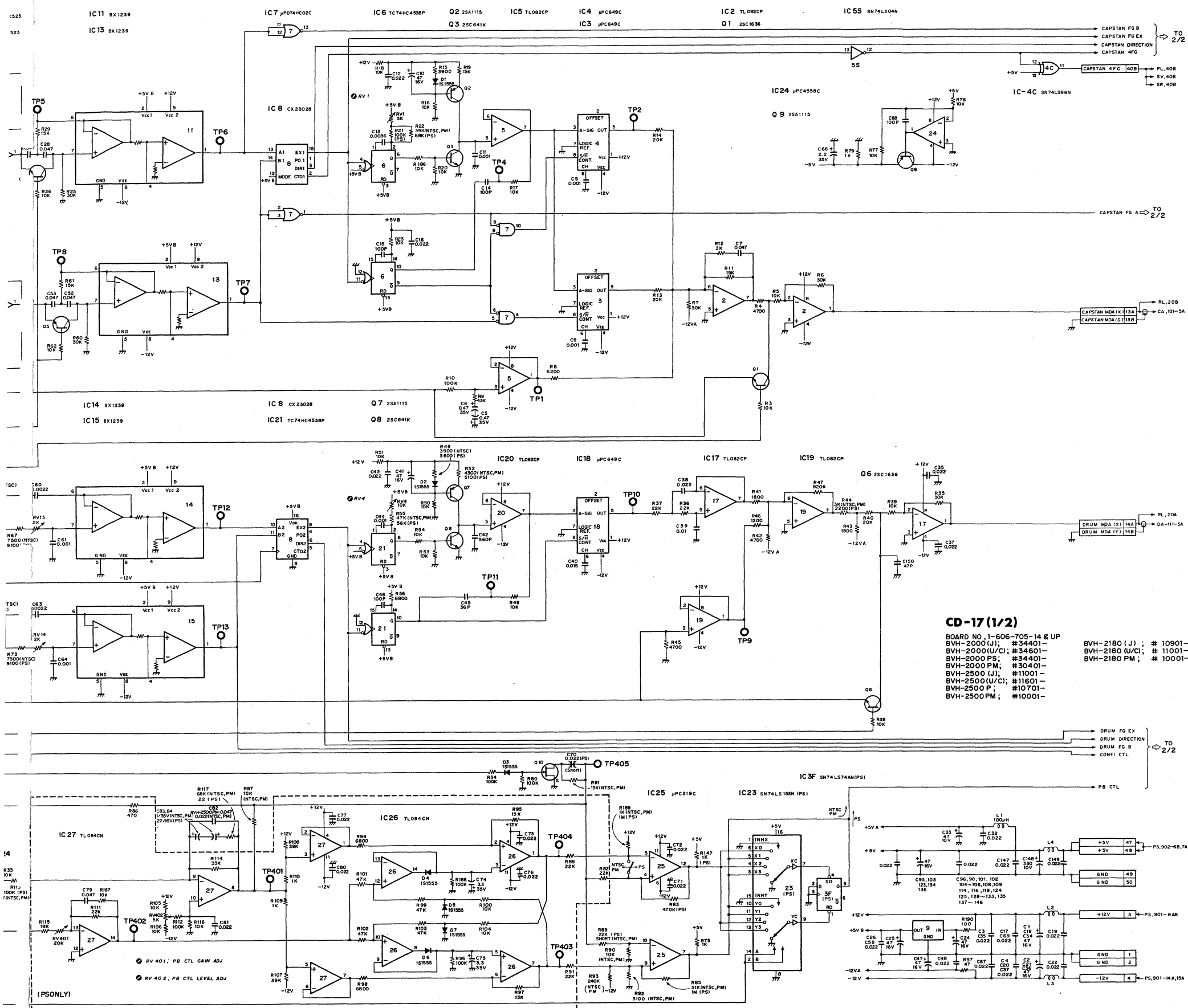
C-89(8/25)

C-89(8/25)

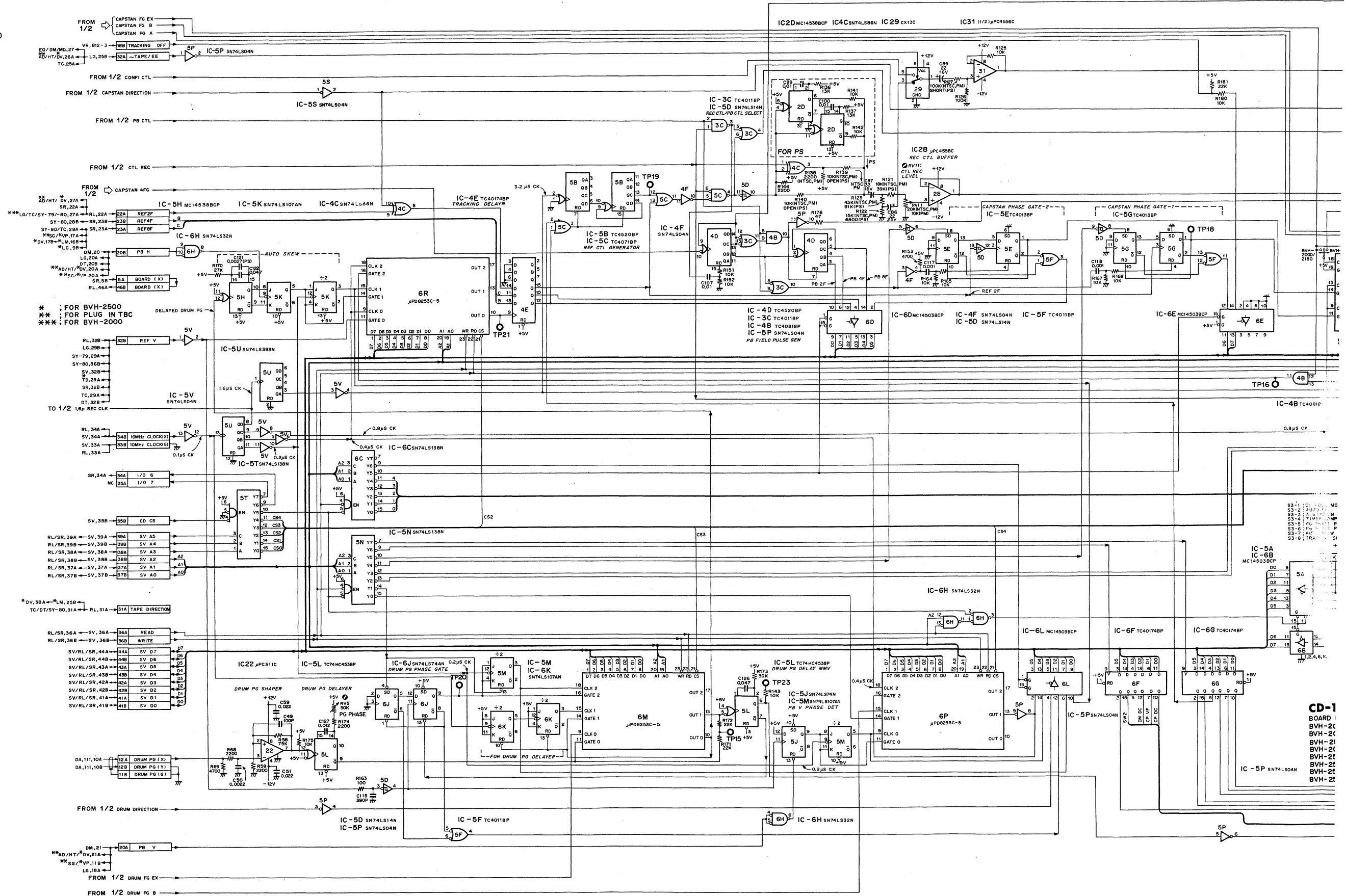
C-89(8/25)

C-89(8/25)

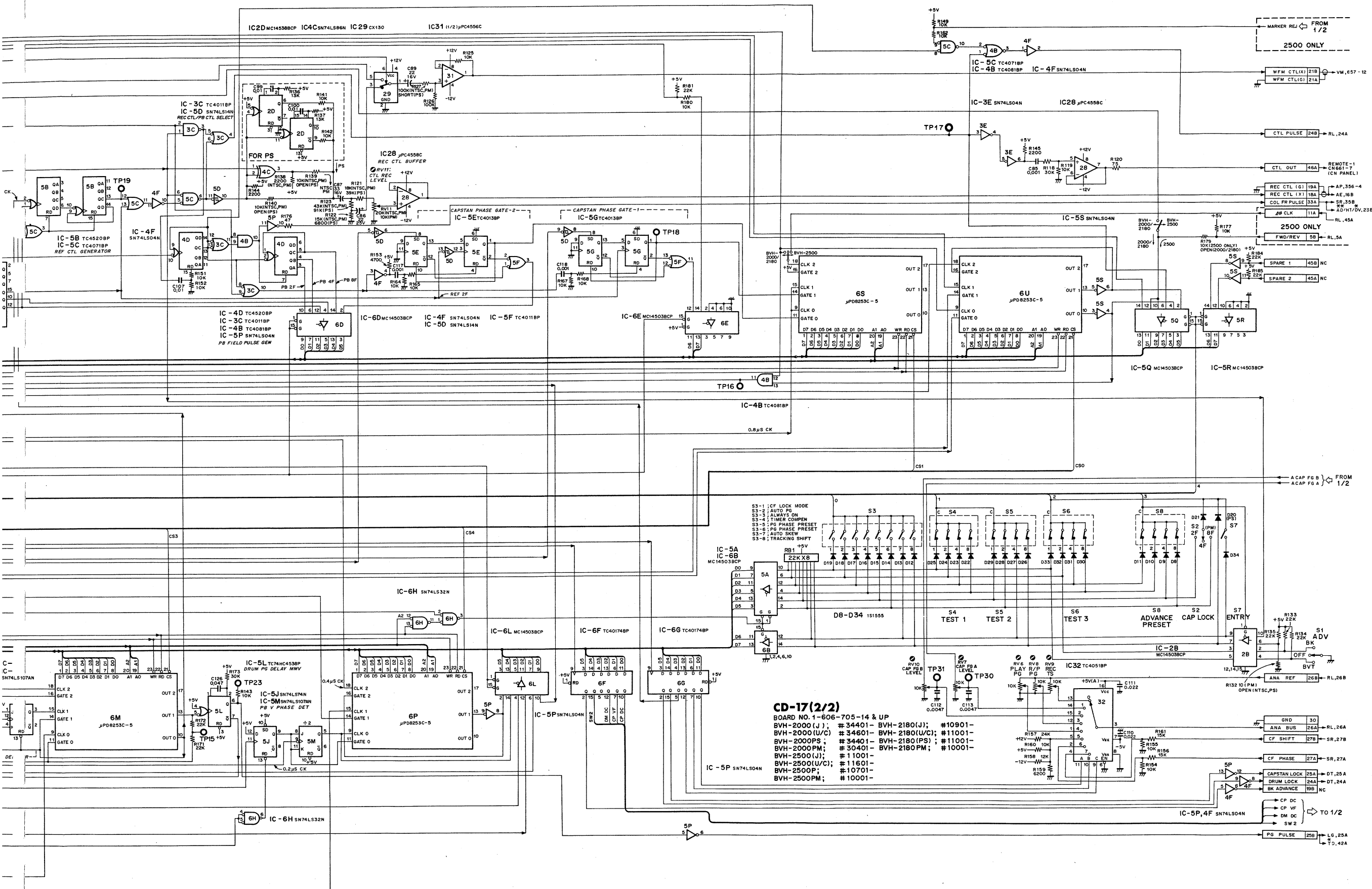
CD-17 BOARD (1/2)
Capstan/Drum Servo



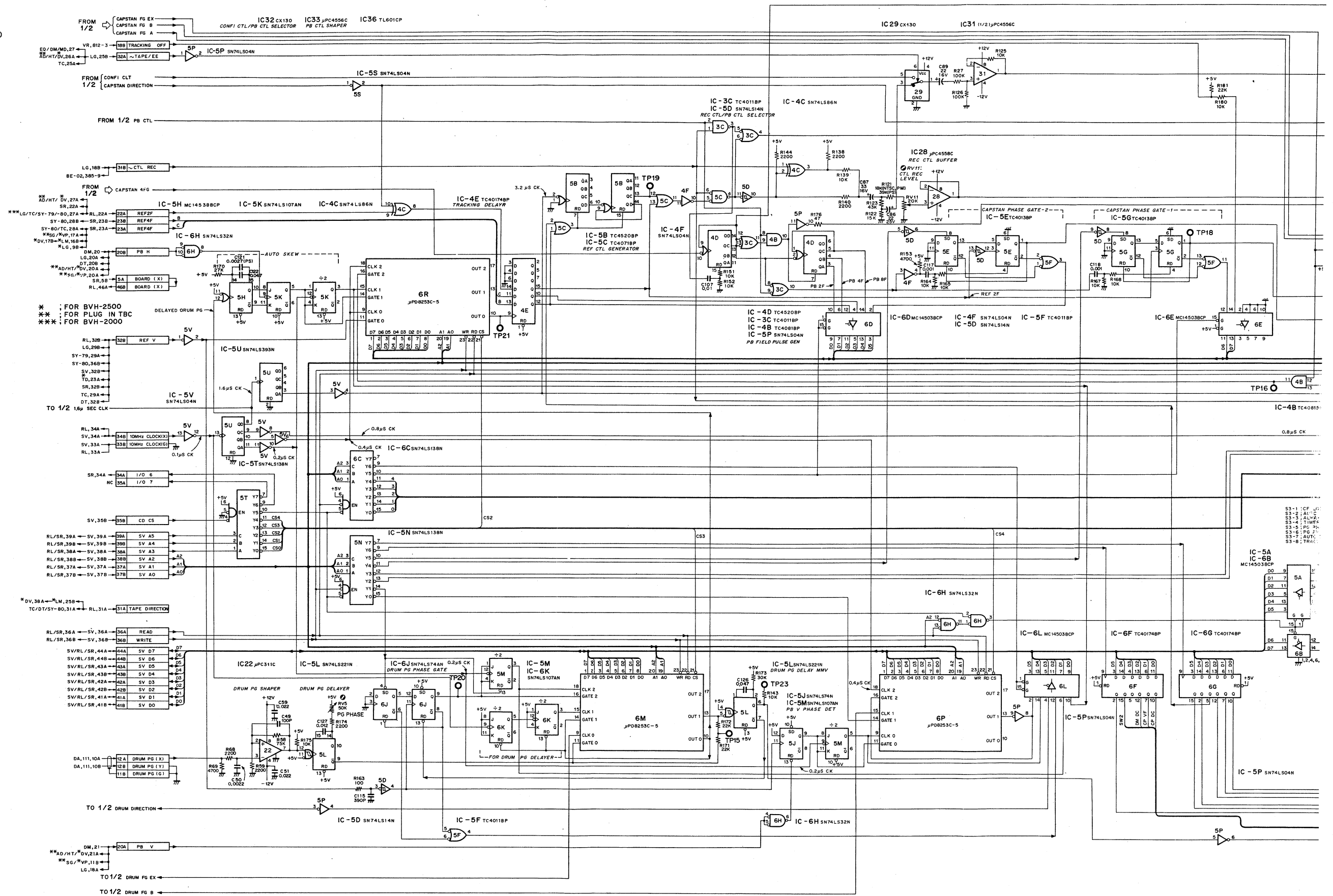
CD-17 BOARD (2/2)
Capstan/Drum Servo

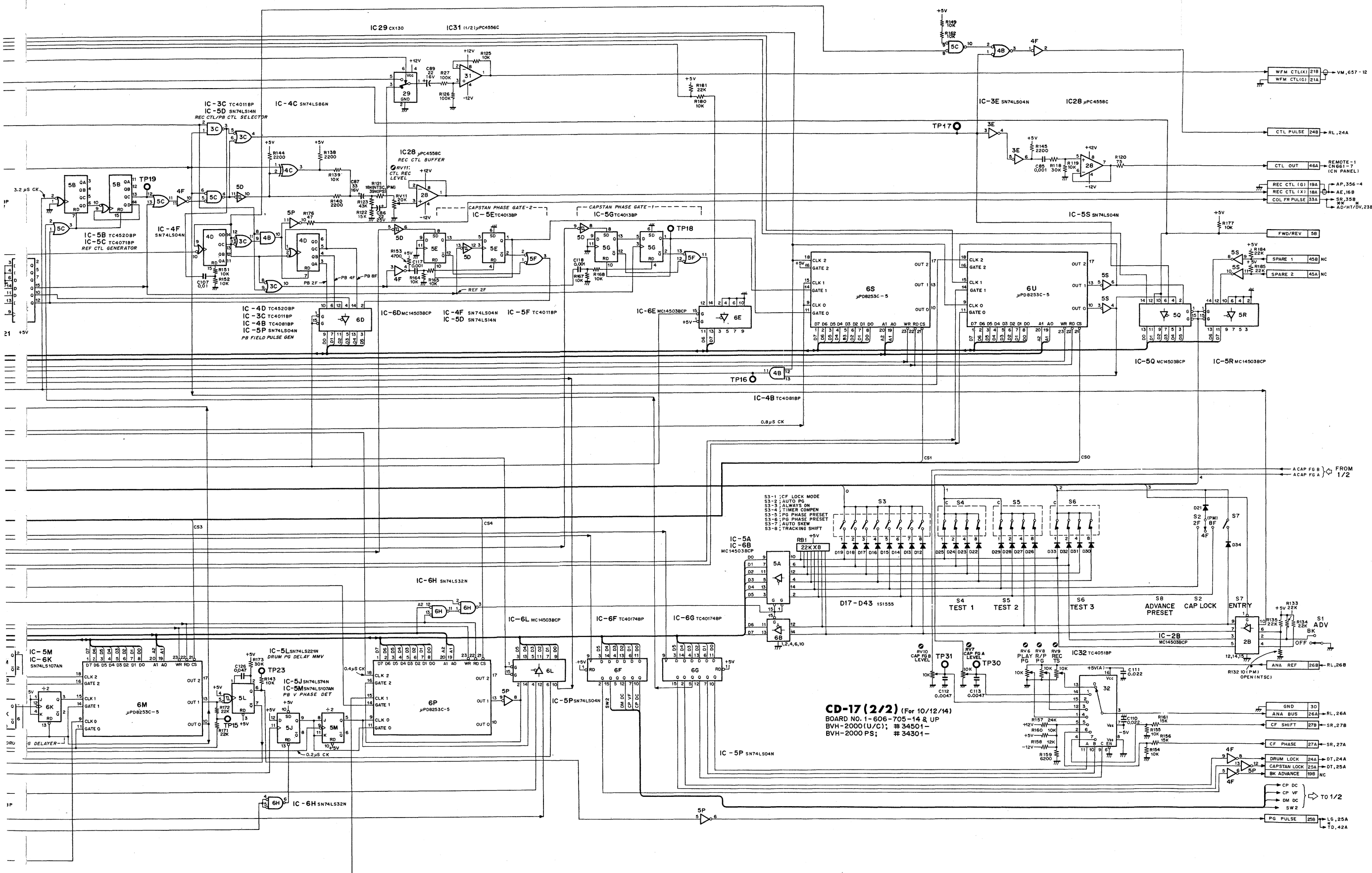


CD-1
BOARD 1
BVH-2C
BVH-2C
BVH-2C
BVH-2C
BVH-2E
BVH-2E
BVH-2E
BVH-2E



CD-17 BOARD (2/2) Capstan/Drum Servo

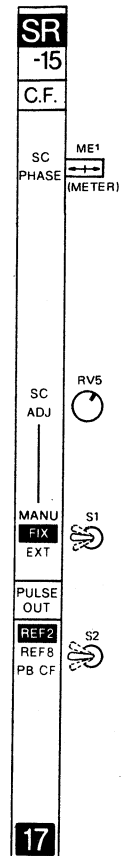




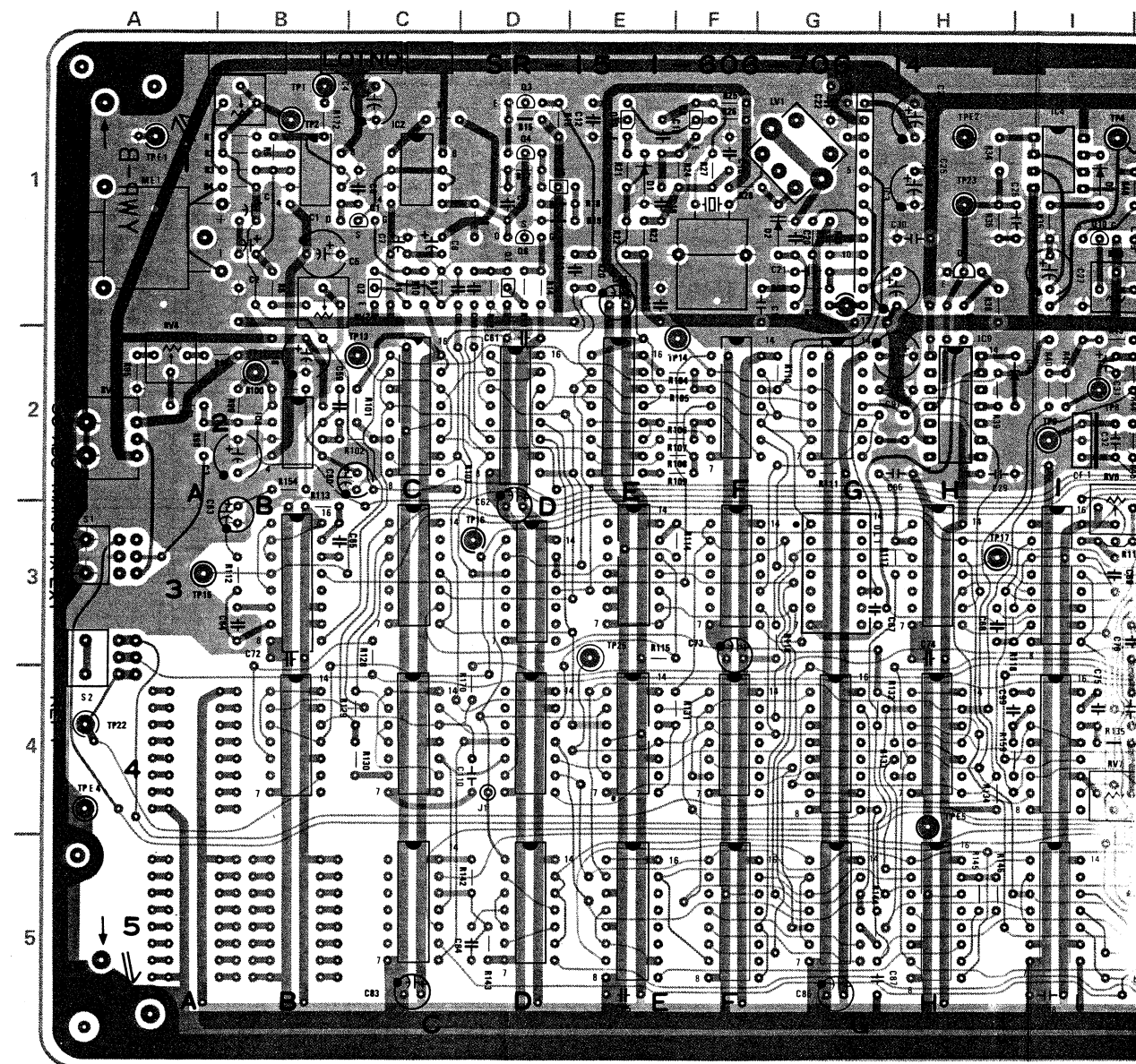
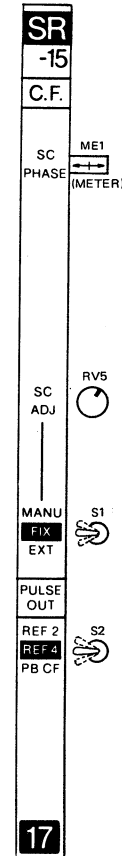
SR-15 BOARD (1-606-706-14)

Component Side

BVH-2000PS/PM
BVH-2180PS/PM
BVH-2500P



BVH-2000
BVH-2180
BVH-2500



1-606-706-14 COMPONENT SIDE

100 /PM
180 /PM
500P

BVH-2000
BVH-2180
BVH-2500

SR
-15
C.F.

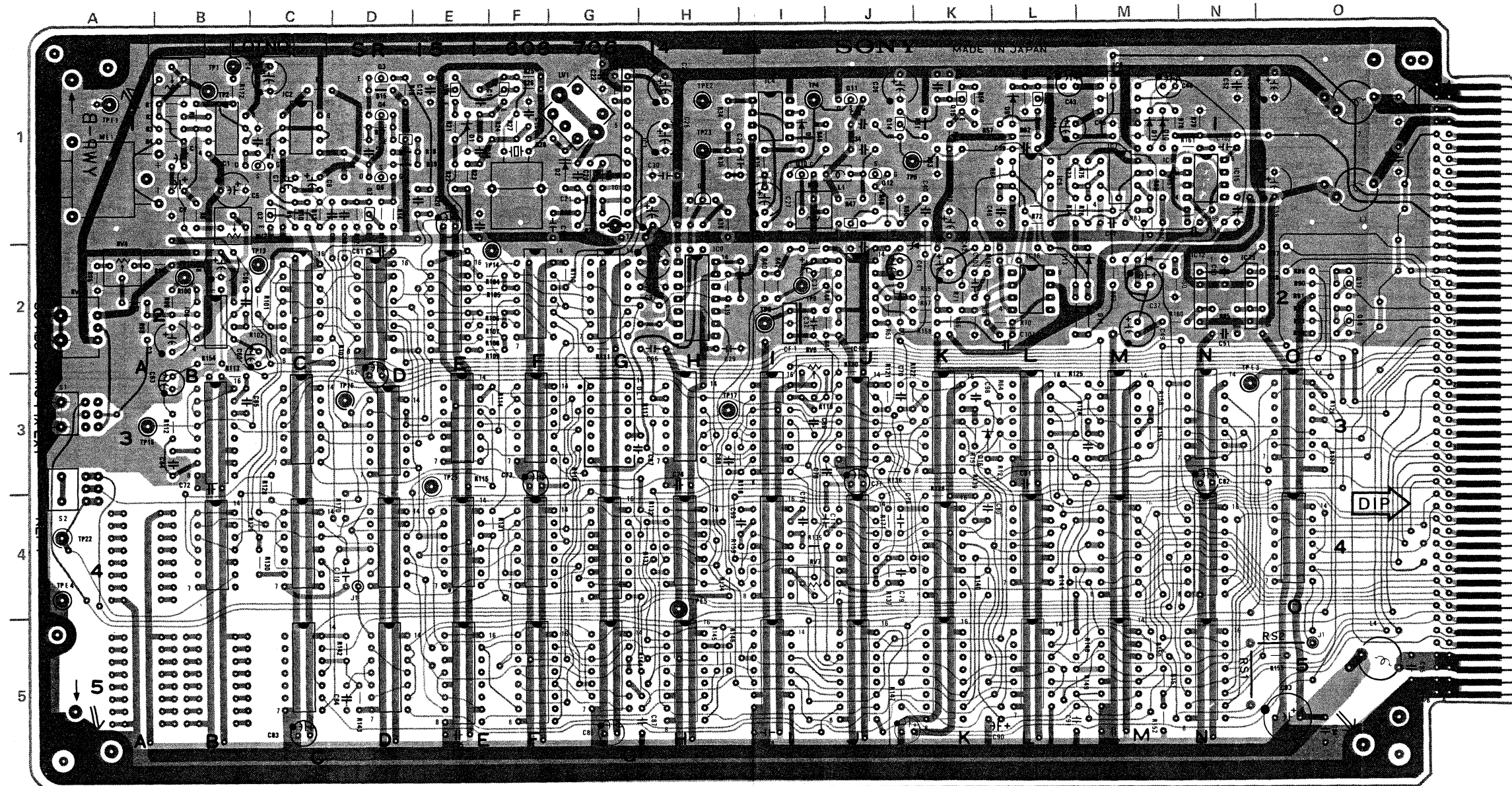
SC PHASE
(METER)

SC ADJ
(METER)

MANU
FIX
EXT

PULSE
OUT

17



1-606-706-14 COMPONENT SIDE

1-606-706-14 SOLDER SIDE

SR-15 (1-606-706-13 & (P))

BVH-2000/PS/PM IC6 1M
BVH-2180/PS/PM IC7 1M
BVH-2500/P IC8 2B
IC9 2H
IC12 2N
IC13 2N
IC14 2J
IC15 1N
IC16 2L

D1 1E
D2 1G
D3 1I
D4 2H
D5 2J
D6 2J
D7 2J
D8 2M
D9 1L
D10 1M
D11 1M
D12 2M
D13 2L
D14 2M
D15 2L
D16 3K

DL1 3G
IC1 1B
IC2 1C
IC2C
IC2D
IC2E
IC2F
IC2G
IC3 1G
IC3B
IC3C
IC3D

IC6 1M
IC7 1M
IC8 2B
IC9 2H
IC12 2N
IC13 2N
IC14 2J
IC15 1N
IC16 2L
LV1 1G
ME1 1A
O1 1C
O2 1C
O3 1D
O4 1D
O5 1D
O6 1D
O7 1D
O8 1F
O9 1H
O10 1I
O11 1J
O12 1J
O13 1J
O14 1J
O15 1K
O16 1L
O17 20
O18 20
O19 1E

RV1 1B
RV2 1B
RV3 1I
RV4 2A
RV5 2A
RV6 3I
RV7 4I

IC3F
IC3H
IC3J
IC3K
IC3L
IC3M
IC3N
IC3O
IC4 1I
IC4B
IC4C
IC4D
IC4E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

TP1 1B
TP2 1B
TP3 1G
TP4 1I
TP5 1J

TP6 2B
TP12 2C
TP13 1F
TP14 3A
TP15 3A
TP16 3D
TP17 3H
TP22 4A
TP23 1H
TP25 3E

Servo Ref. Signal Generator

Q11 2SK43-2

Q13

Q1E

c Q1

2SC4030

Q14 2

403C

IC-3J SN74LS04N

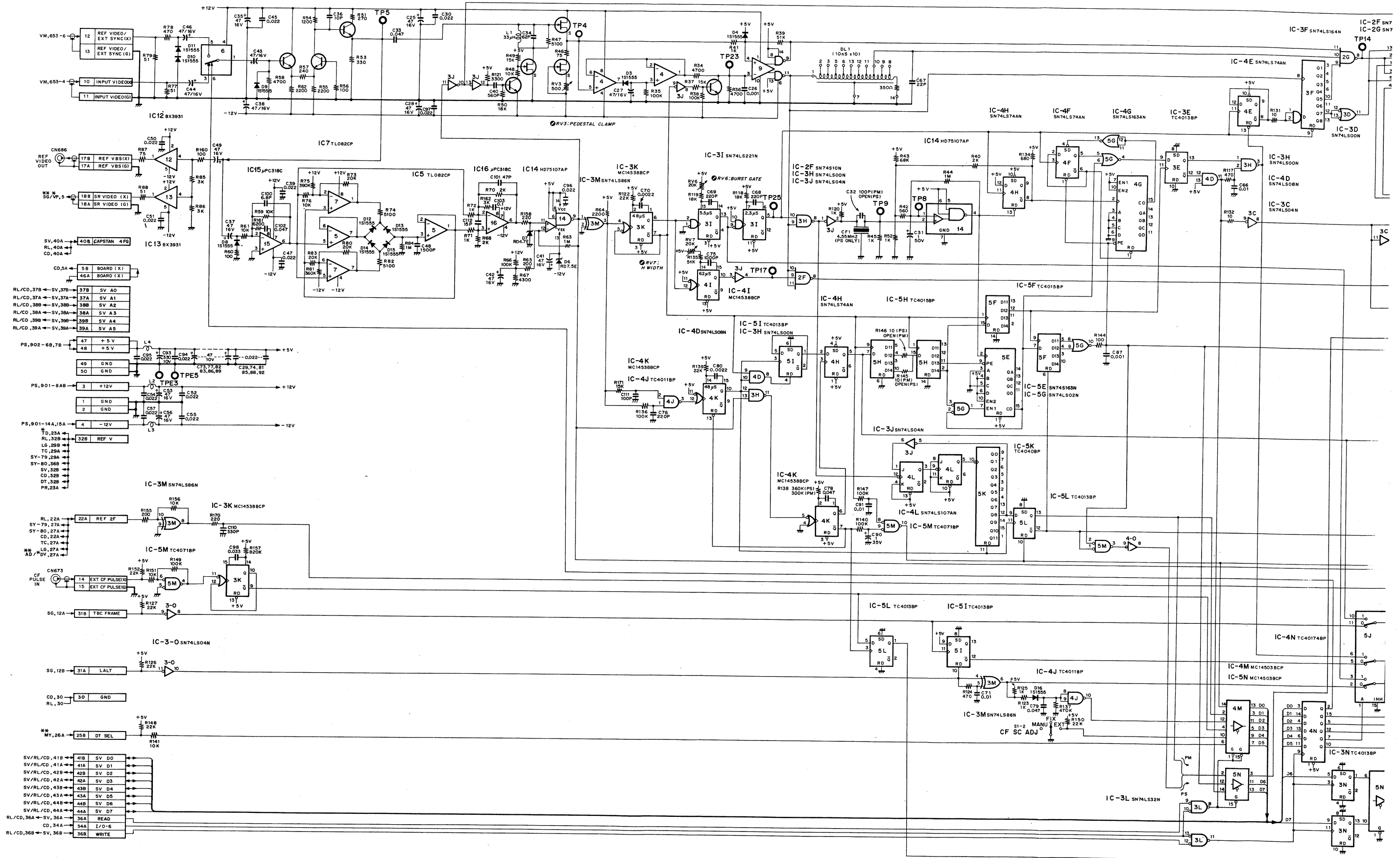
-2 Q10 2SK43-5 IC4 TL082CP

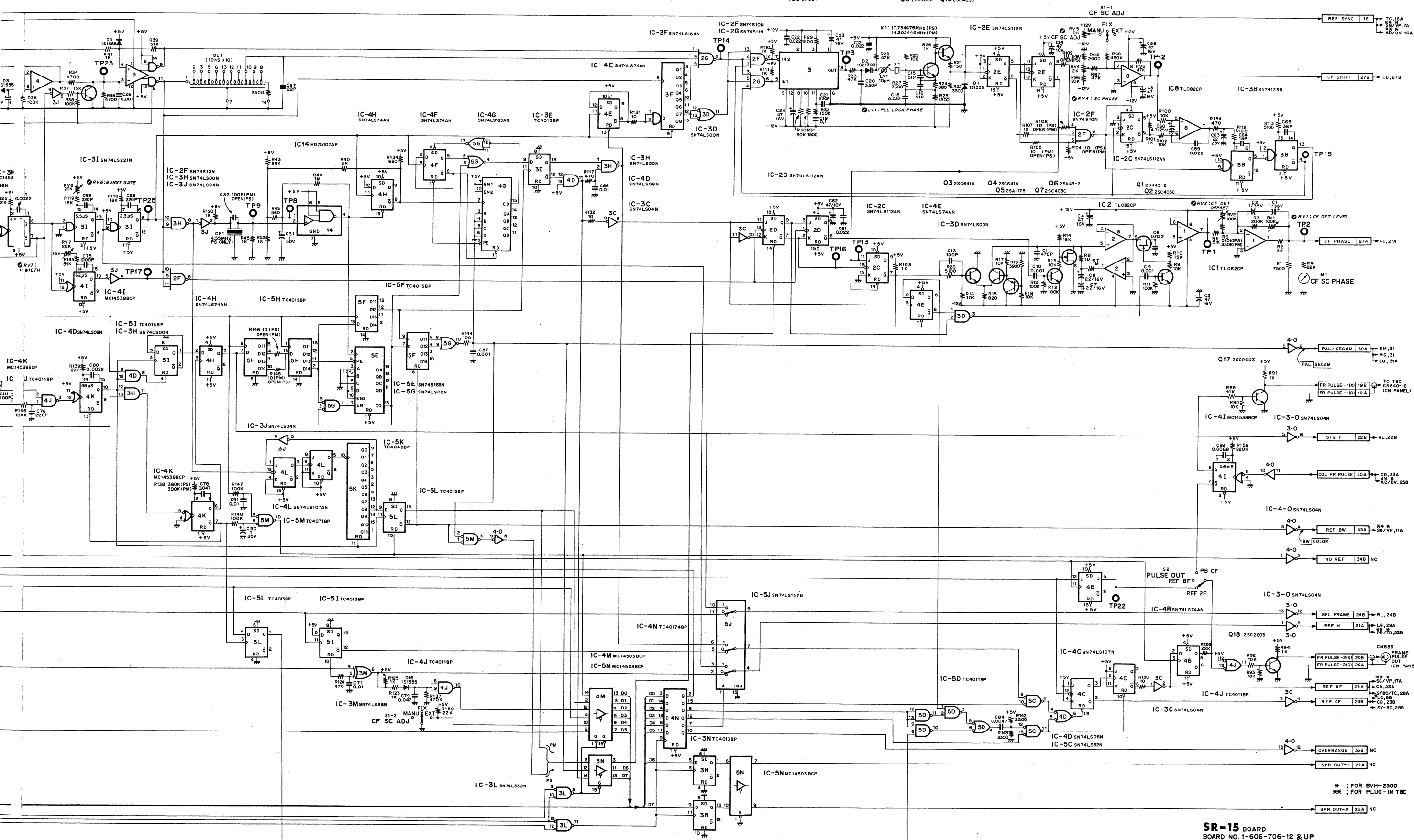
Q9

SC1636

IC

NE527

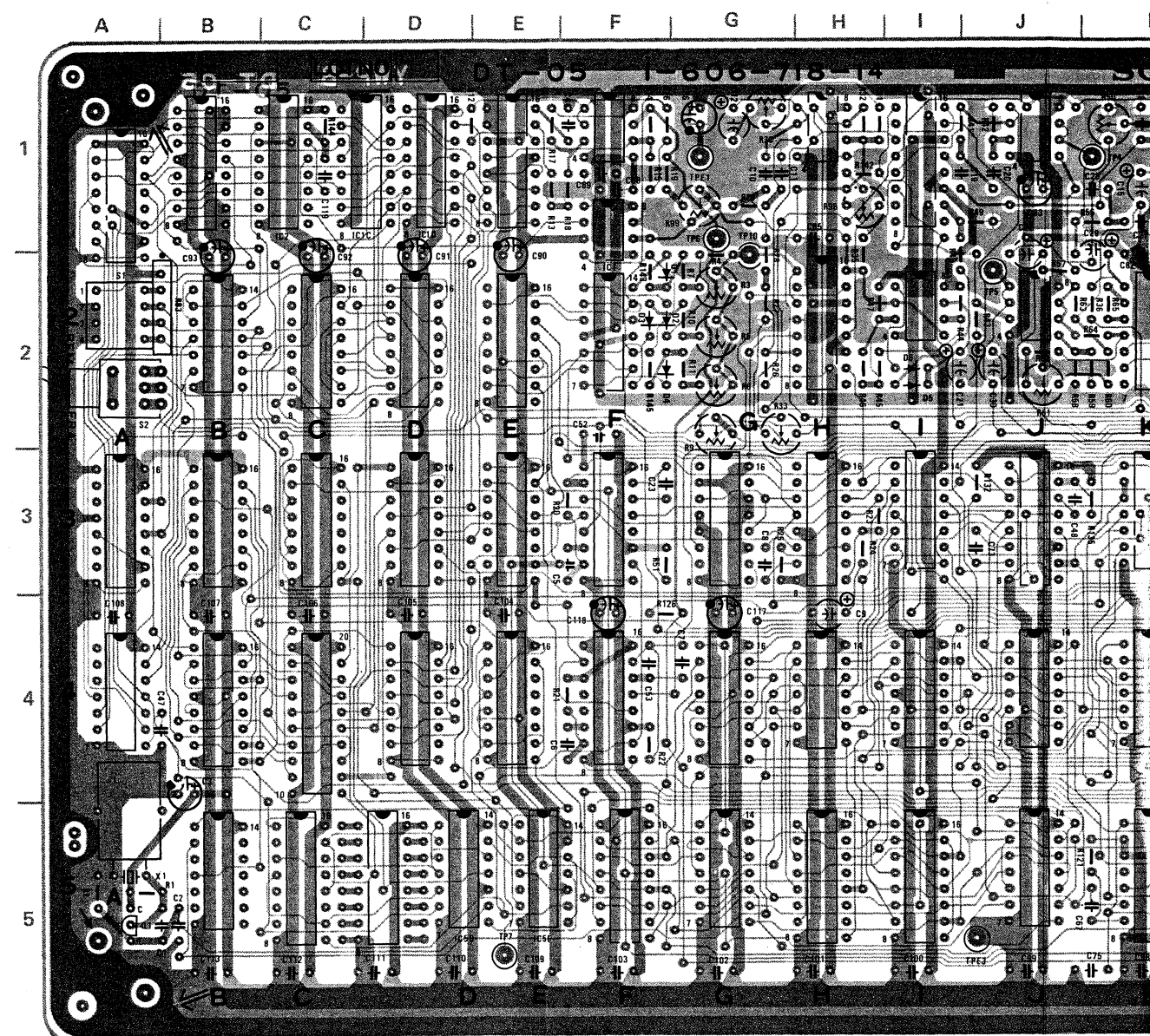
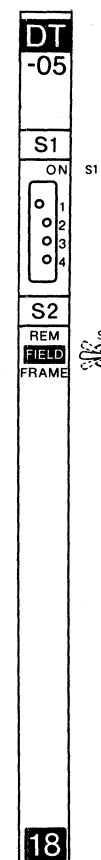




SR-15 BOARD
BOARD NO. 1-606-706-12 & UP
BVH-2000PS; #10301 BVH-2180PS; #10001-
BVH-2000PM; #10001 BVH-2180PM; #10001-
BVH-2500P; #10001
BVH-2500PM; #10001-

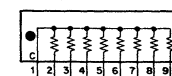
DT-05 BOARD (1-606-718-14)

Component Side

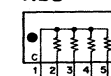


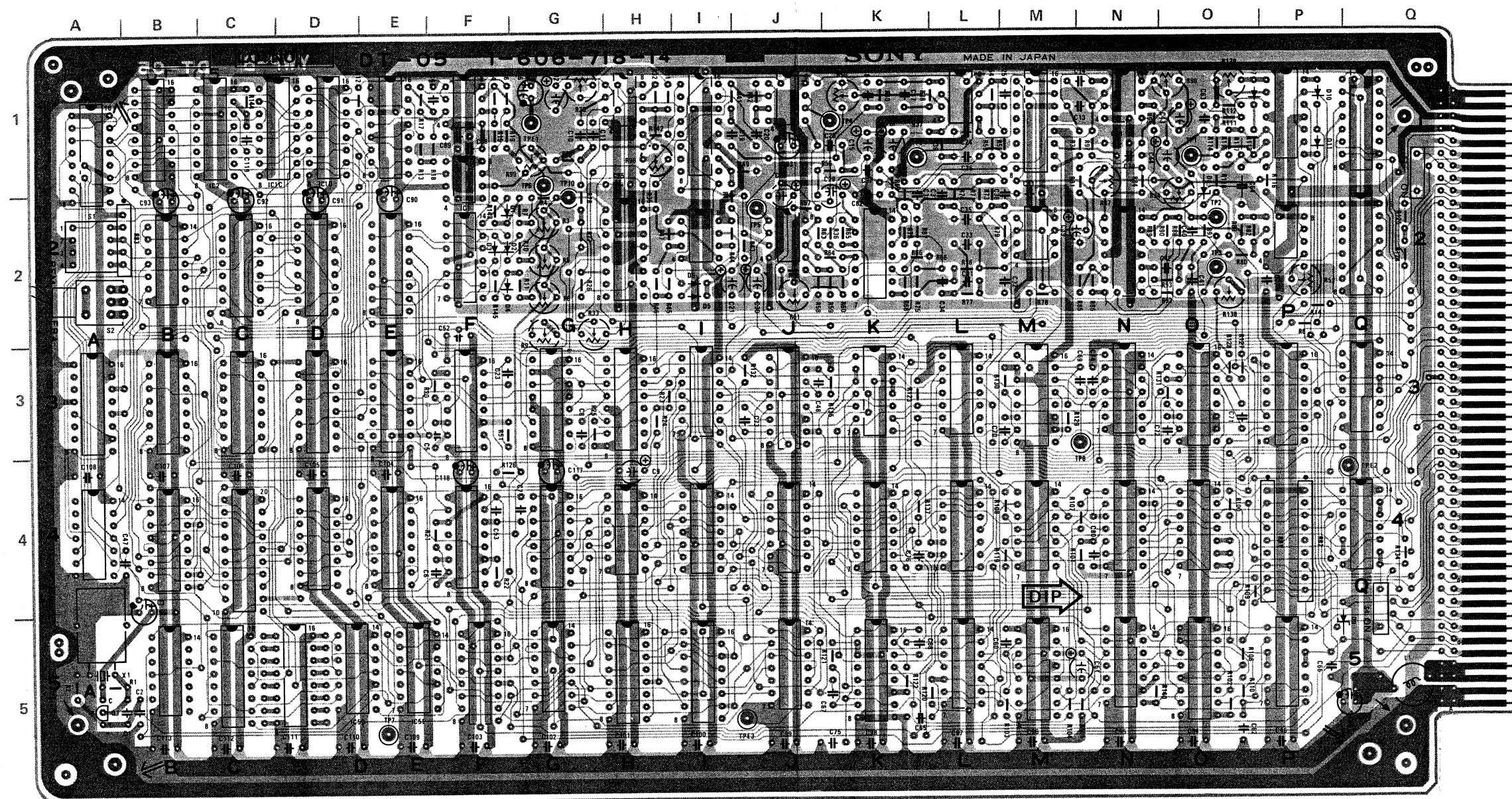
1-606-718-14 COMPONENT SIDE

RB1, 2



RB3





1-606-718-14 COMPONENT SIDE

1-606-718-14 SOLDER SIDE

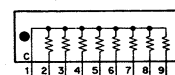
DT-05 (1-606-718-13 & UP)

BVH-2000PS
BVH-2180PS
(02/12/04/14 MODEL)

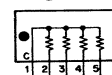
BVH-2500P

D1	2F	IC4G
D2	2F	IC4H
D3	2F	IC4I
D4	2F	IC4J
D5	2I	IC4K
D6	2I	IC4L
D7	1P	IC4M
D8	10	IC4N
D9	5Q	IC4O
D10	1P	IC4Q
D11	1P	IC58
		IC5C
	1F	IC5C1
		IC5D
		IC5E
		IC5F
		IC5G
		IC5H
		IC5I
		IC5J
		IC5K
		IC5L
		IC5M
		IC5N
		IC5O
		IC5P
	Q1	5A
	R3	2G
	R5	2G
	R6	2G
	R9	2G
	IC2F	R30 1G
	IC2H	R33 2G
	IC2I	R50 1K
	IC2J	R52 2P
	IC2K	R61 2J
	IC2M	R87 1N
	IC2N	R94 10
	IC2P	R96 10
	IC2Q	R98 1H
	IC3A	R99 1G
	IC3B	R138 20
	IC3D	R139 10
	IC3E	
	IC3F	RB1 4P
	IC3G	RB2 4P
	IC3H	RB3 2A
	IC3I	
	IC3J	S1 3C
	IC3K	S2 2A
	IC3L	S3 1Q
	IC3M	S4 4Q
	IC3N	
	IC3O	TP1 10
	IC3P	TP2 20
	IC3Q	TP3 20
	IC4A	TP4 1K
	IC4B	TP5 2J
	IC4C	TP6 1F
	IC4D	TP7 5E
	IC4E	TP8 3H
	IC4F	TP9 1K
		TP10 1G
	TPE1	1G
	TPE2	3Q
	TPE3	5J
	X1	5A

RB1, 2

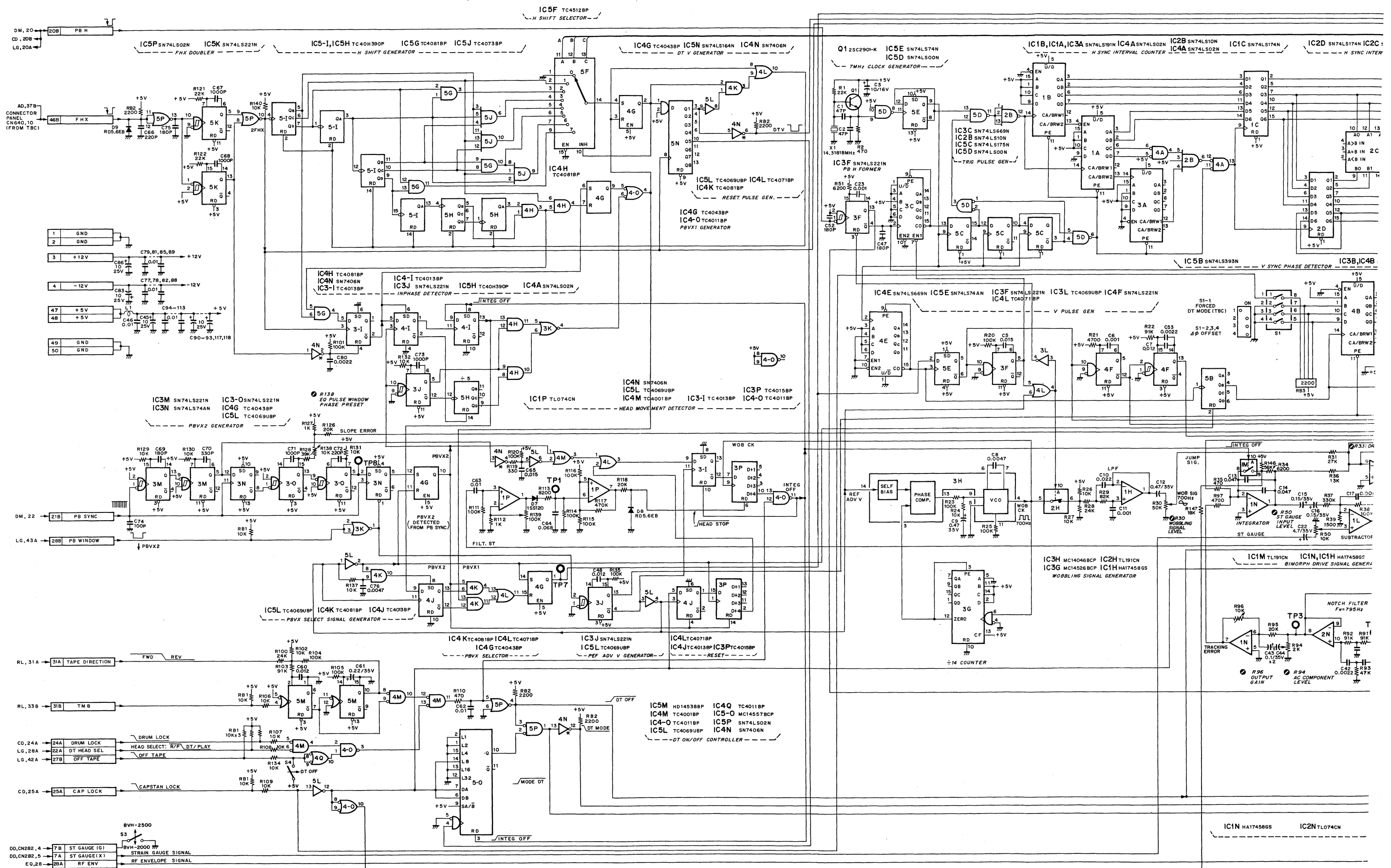


RB3



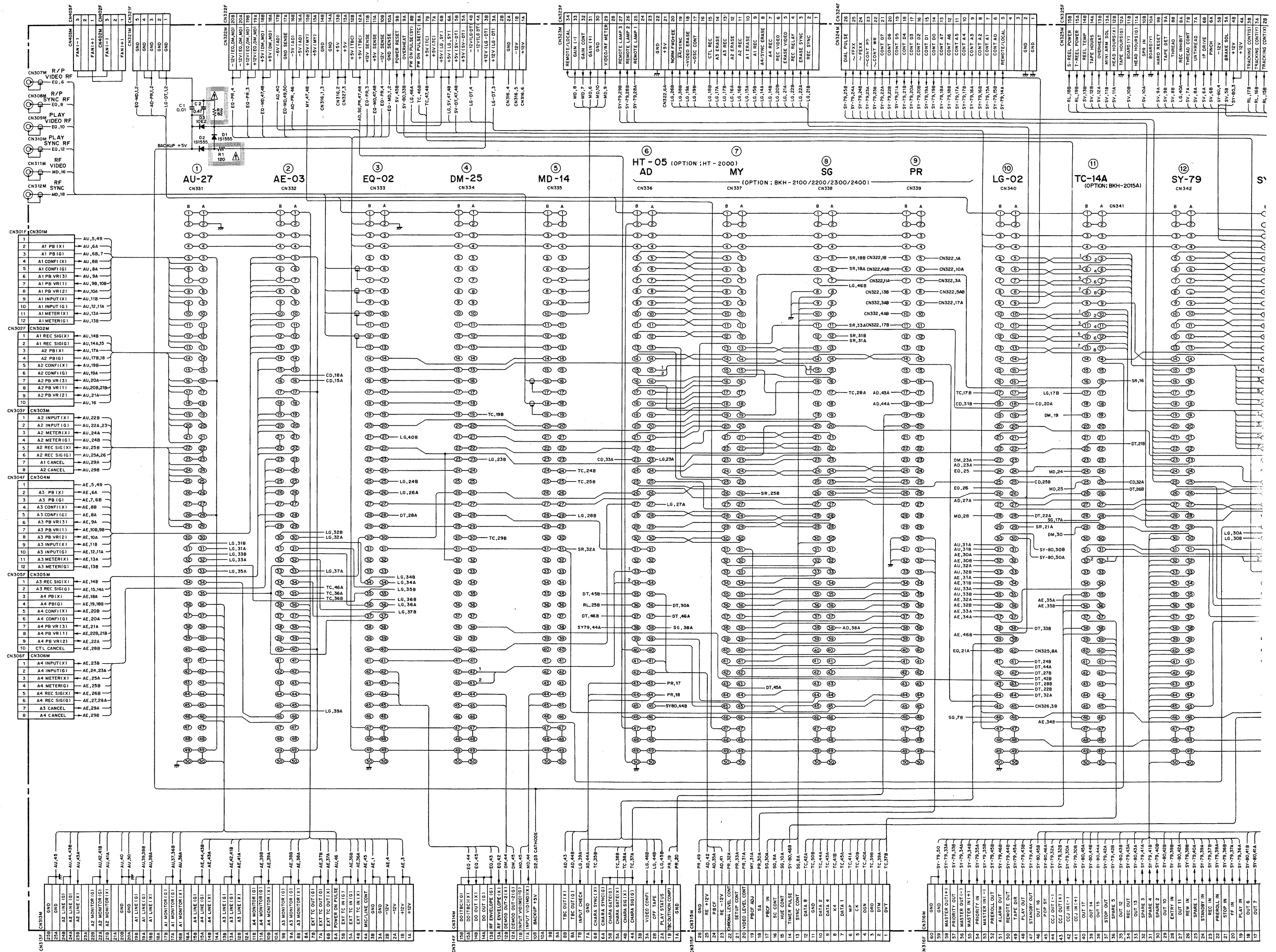
DT-05 BOARD; FOR 02/12/04/14 MODEL

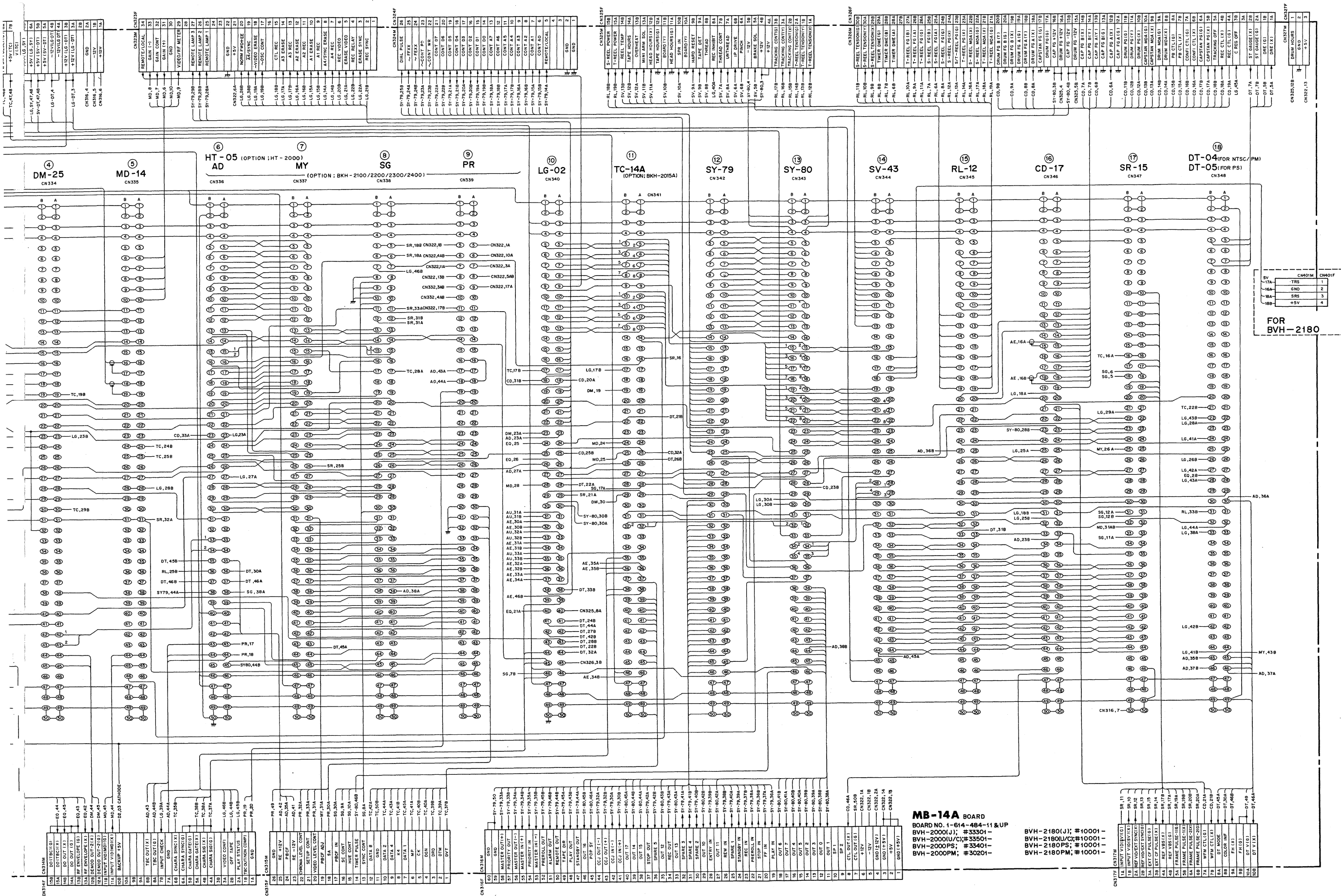
DT Control



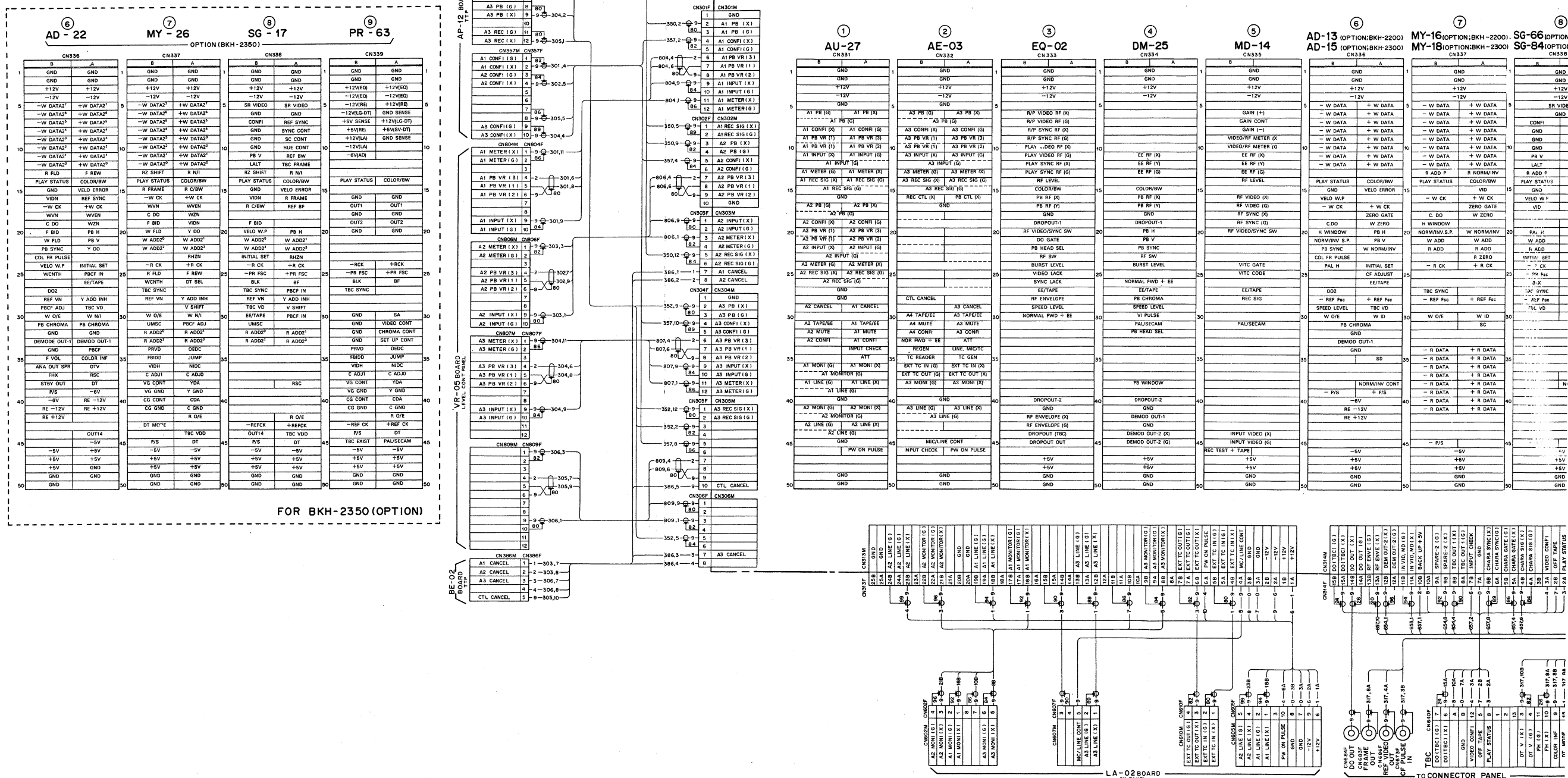


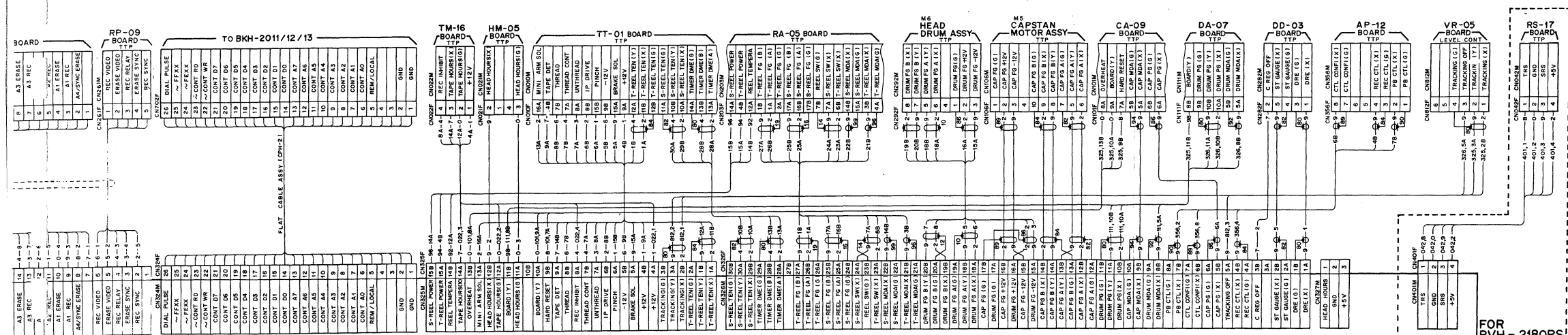
MB-14A BOARD Mother Board



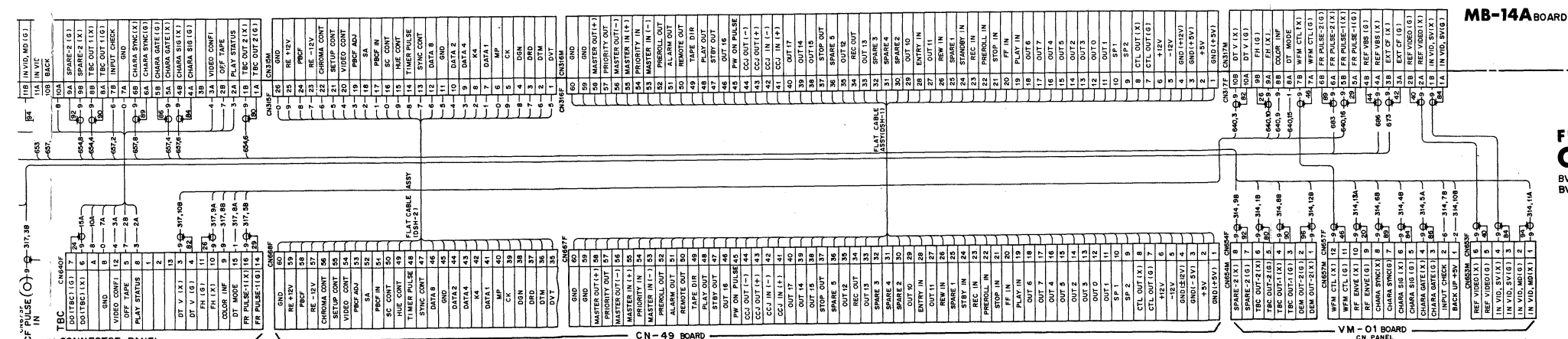
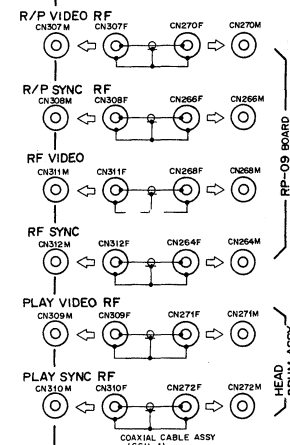
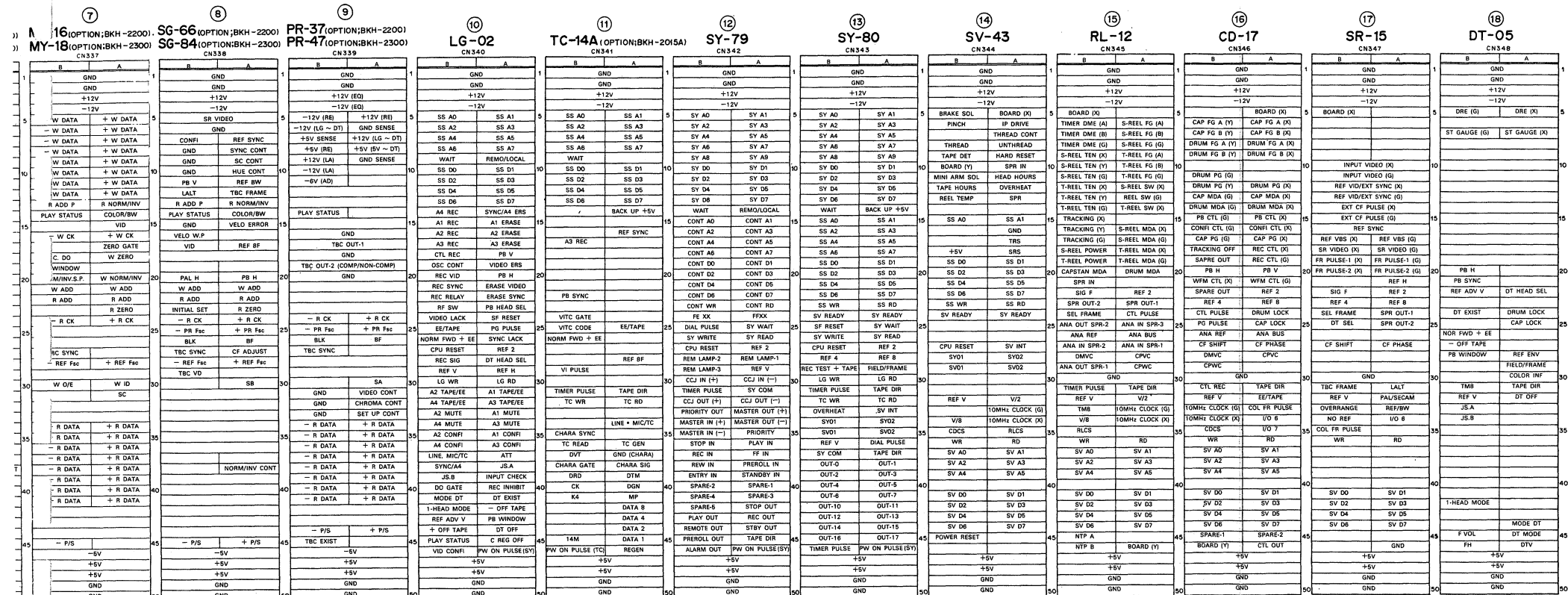


FRAME WIRING; CARD RACK; FOR 00/02 MODELS

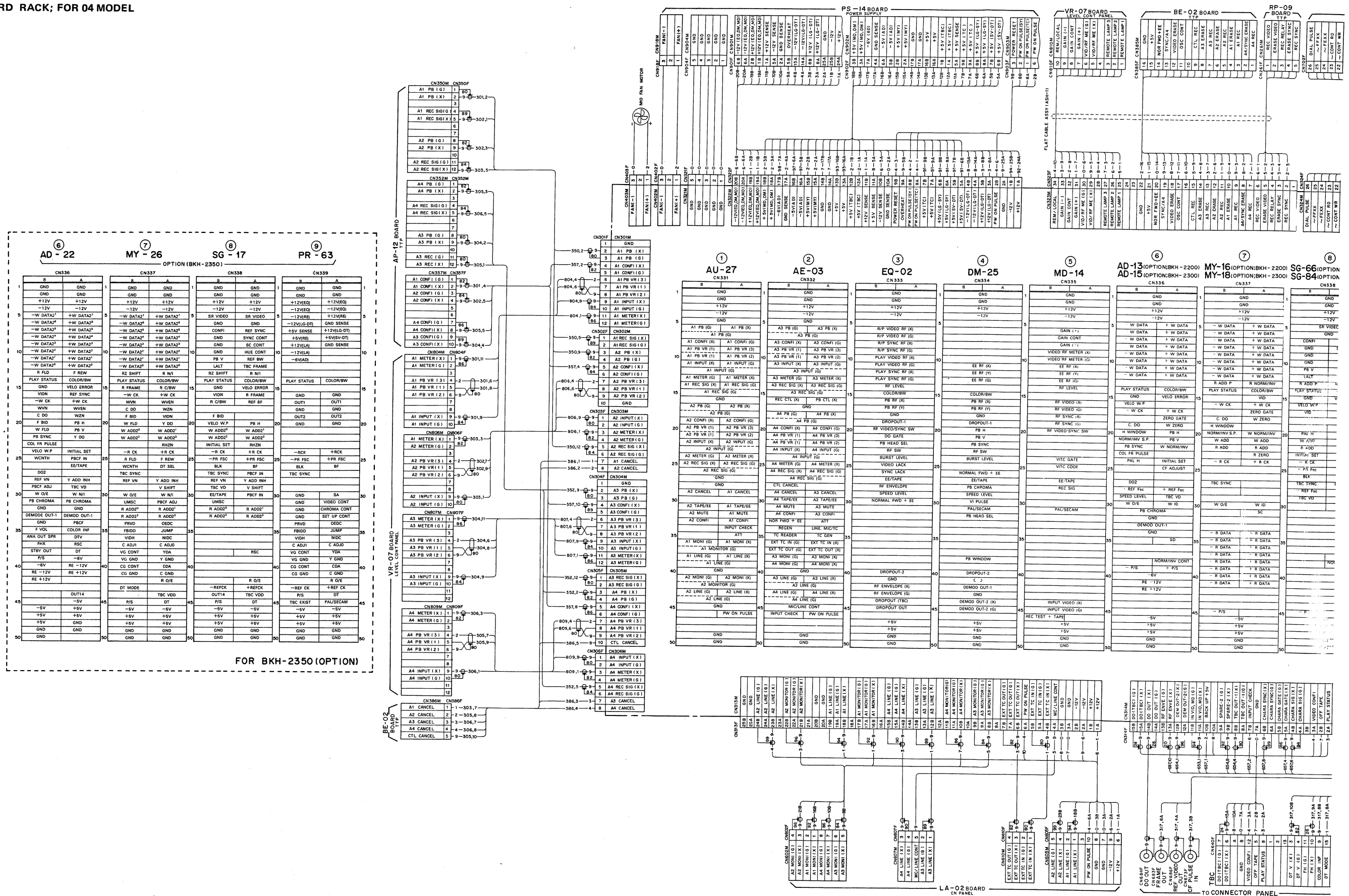


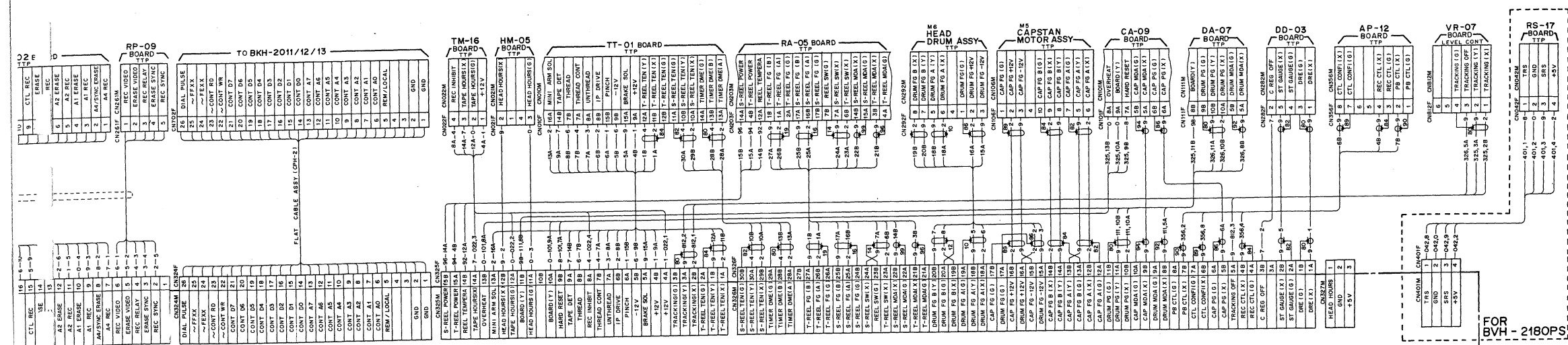


FOR BVH-2180PS

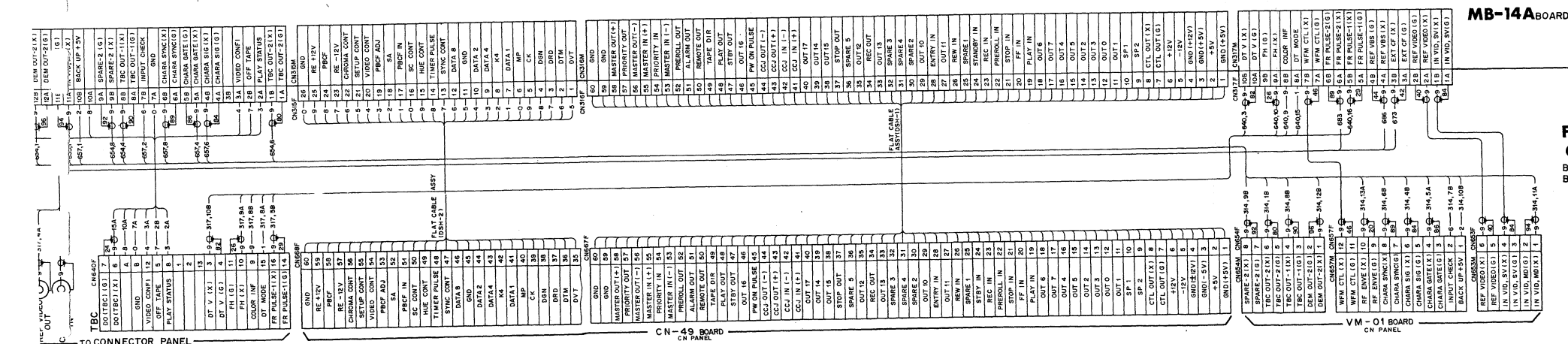
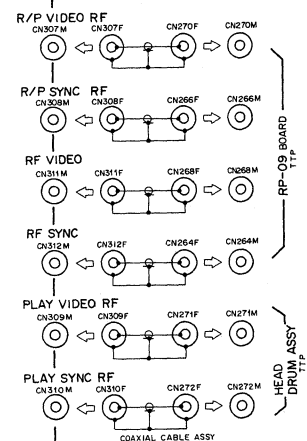
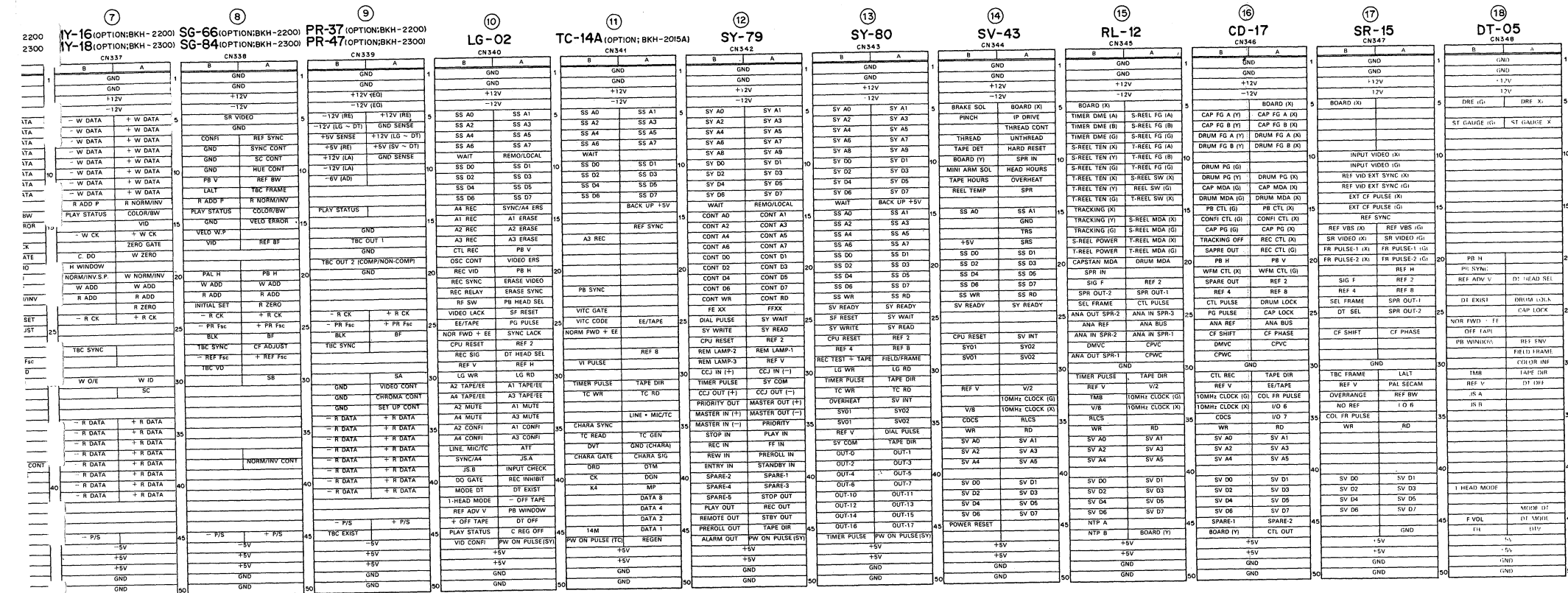
FRAME WIRING
CARD RACK (00/02)BVH-2000PS; #33401-
BVH-2180PS; #10001-

FRAME WIRING; CARD RACK; FOR 04 MODEL

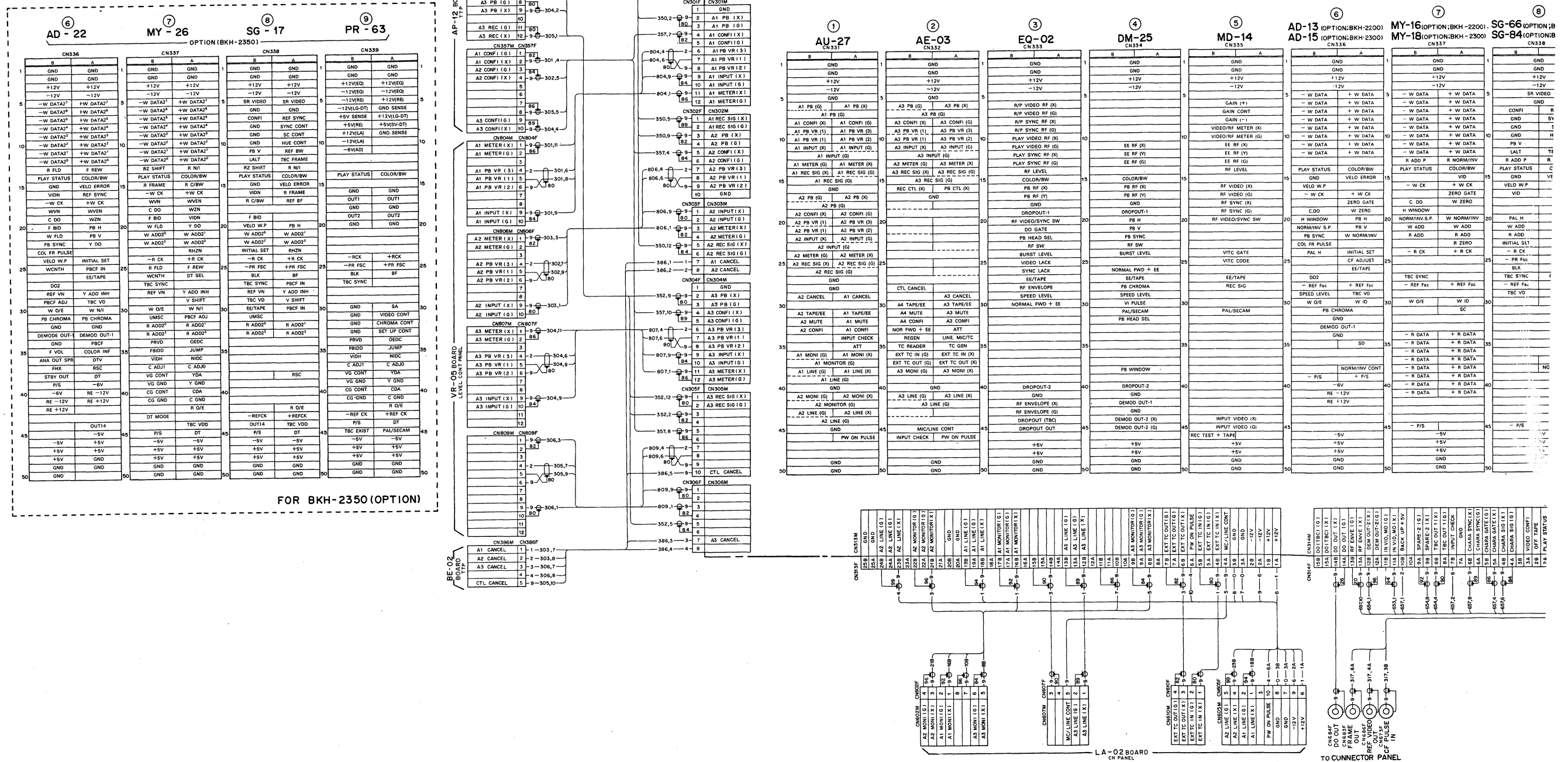


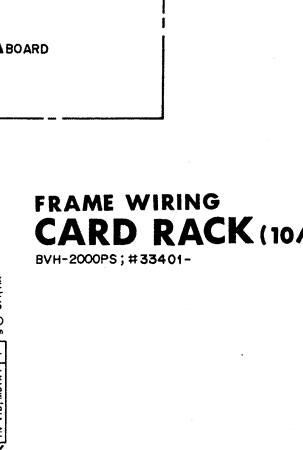
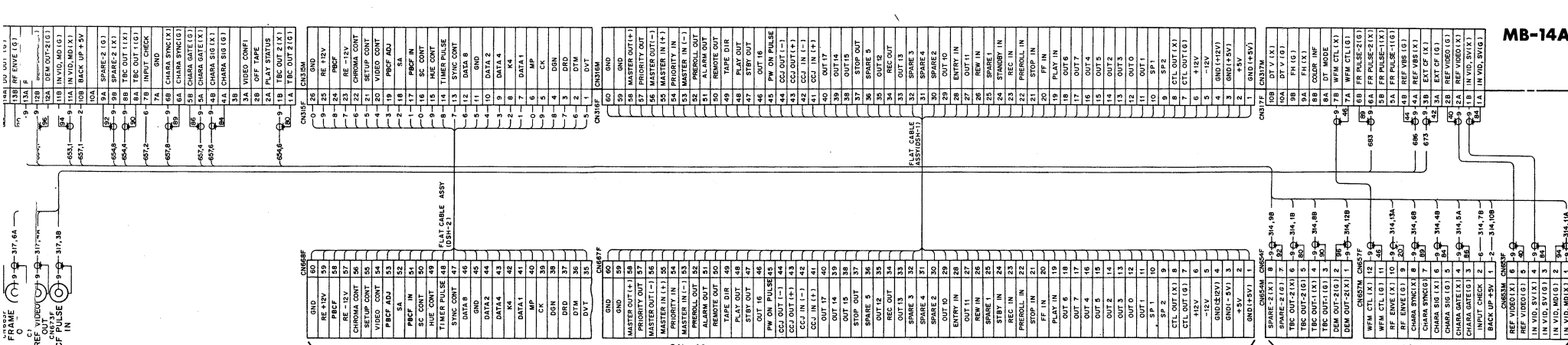
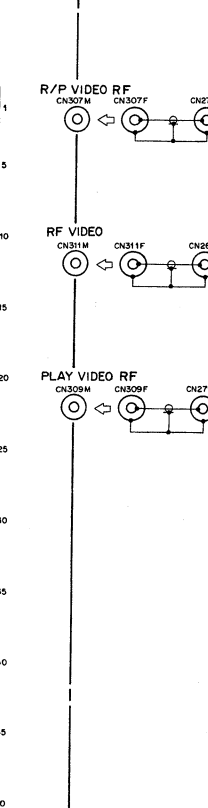
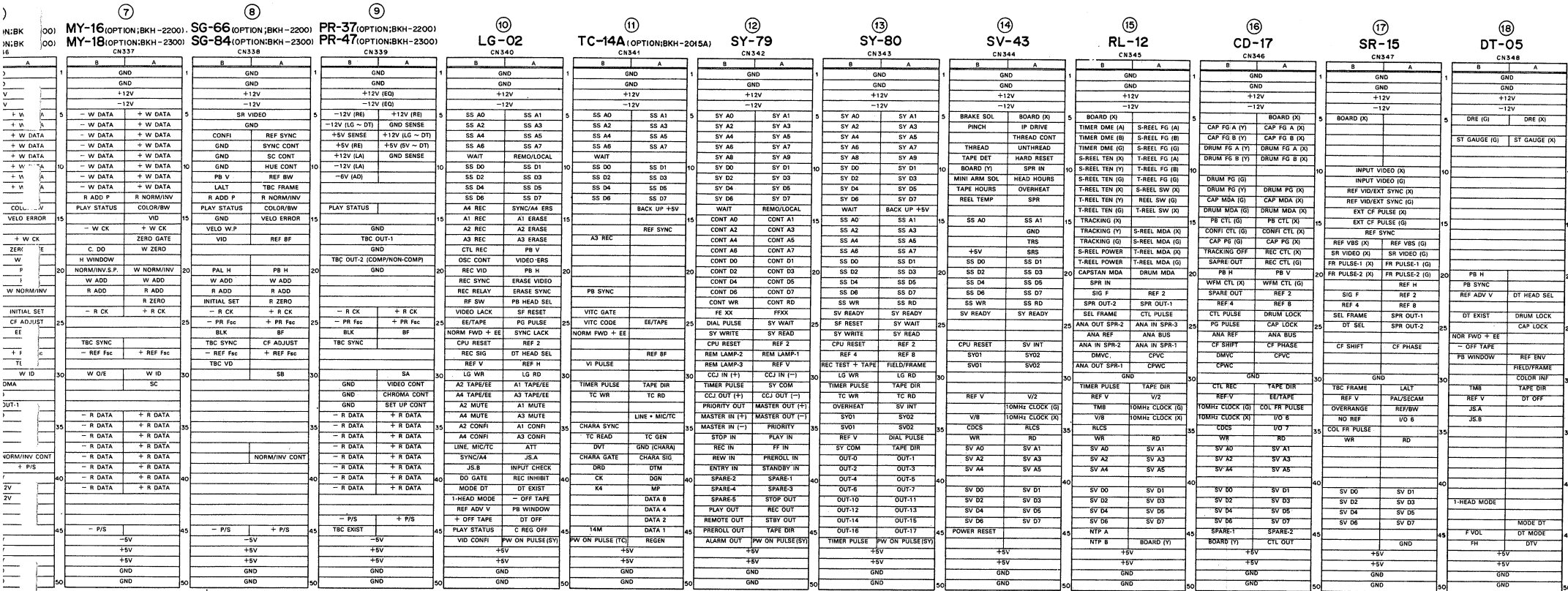
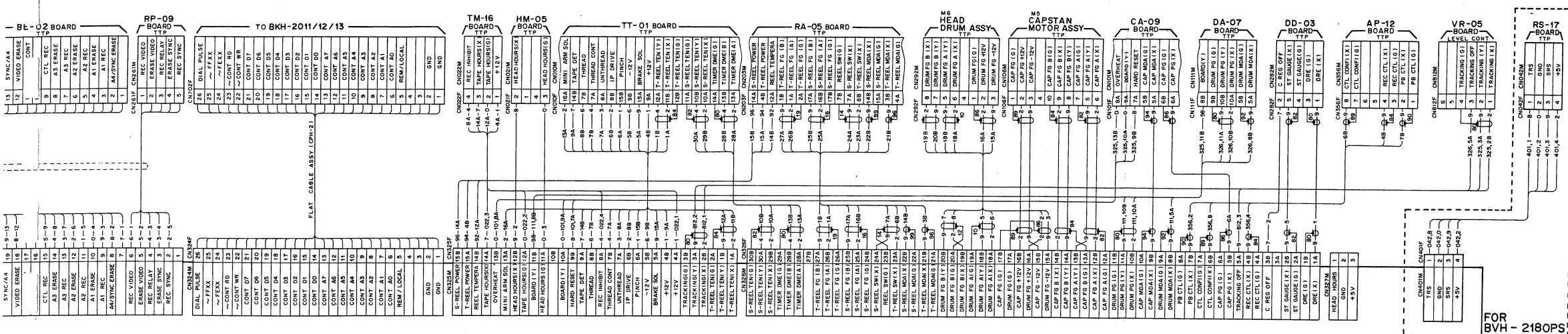


FOR BVH - 2180PS

FRAME WIRING
CARD RACK (04)BVH-2000PS (FOR 04); #33401-
BVH-2180PS (FOR 04); #10001-

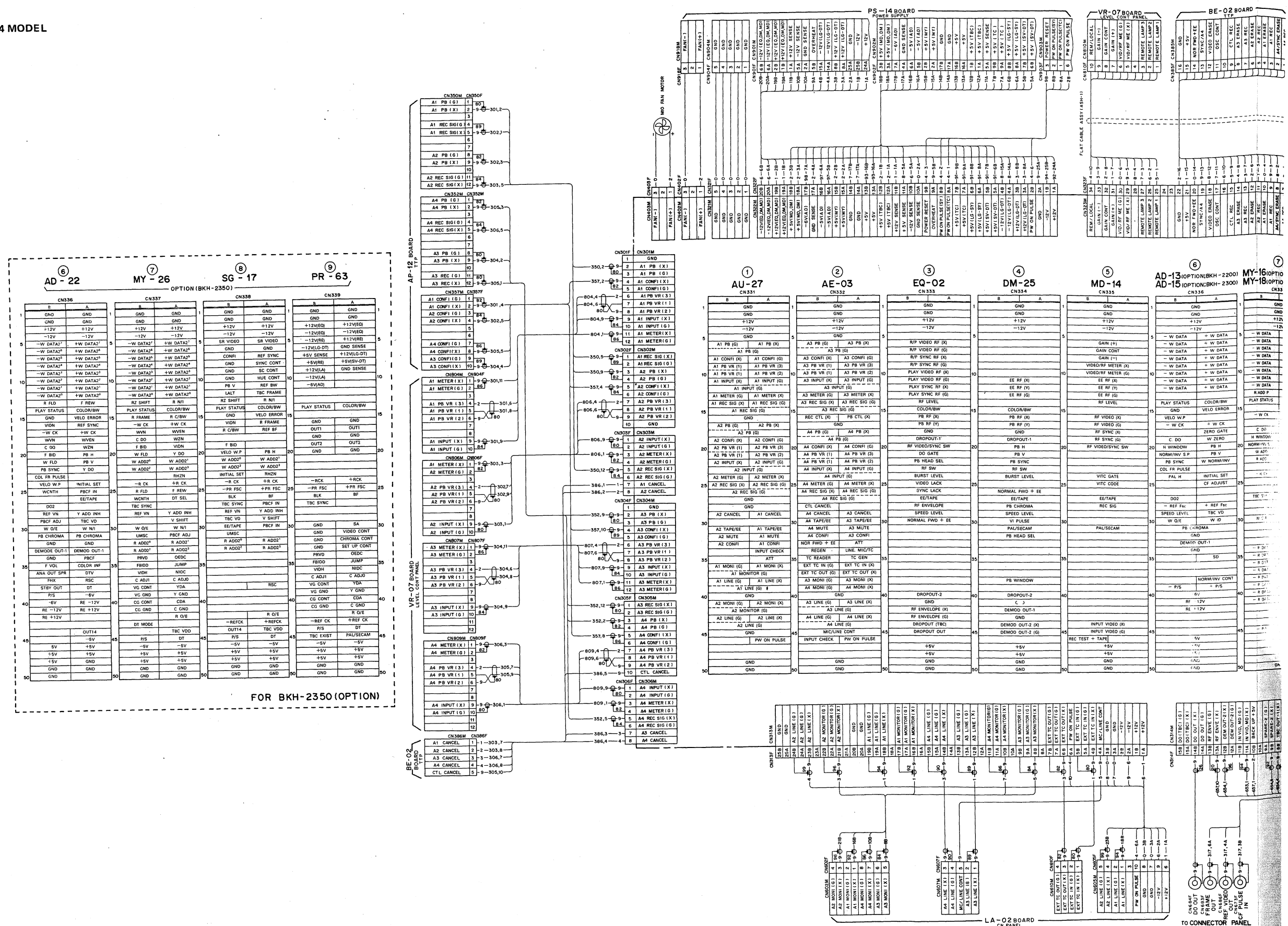
FRAME WIRING; CARD RACK; FOR 10/12 MODELS

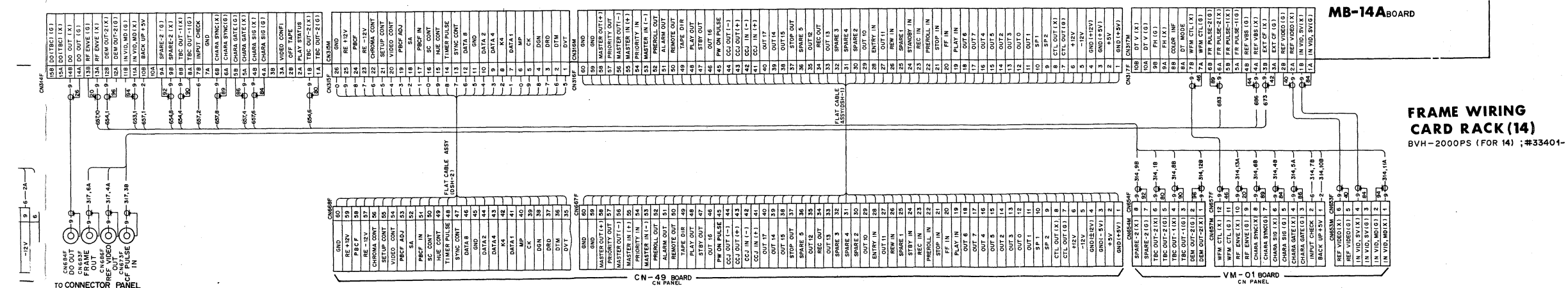
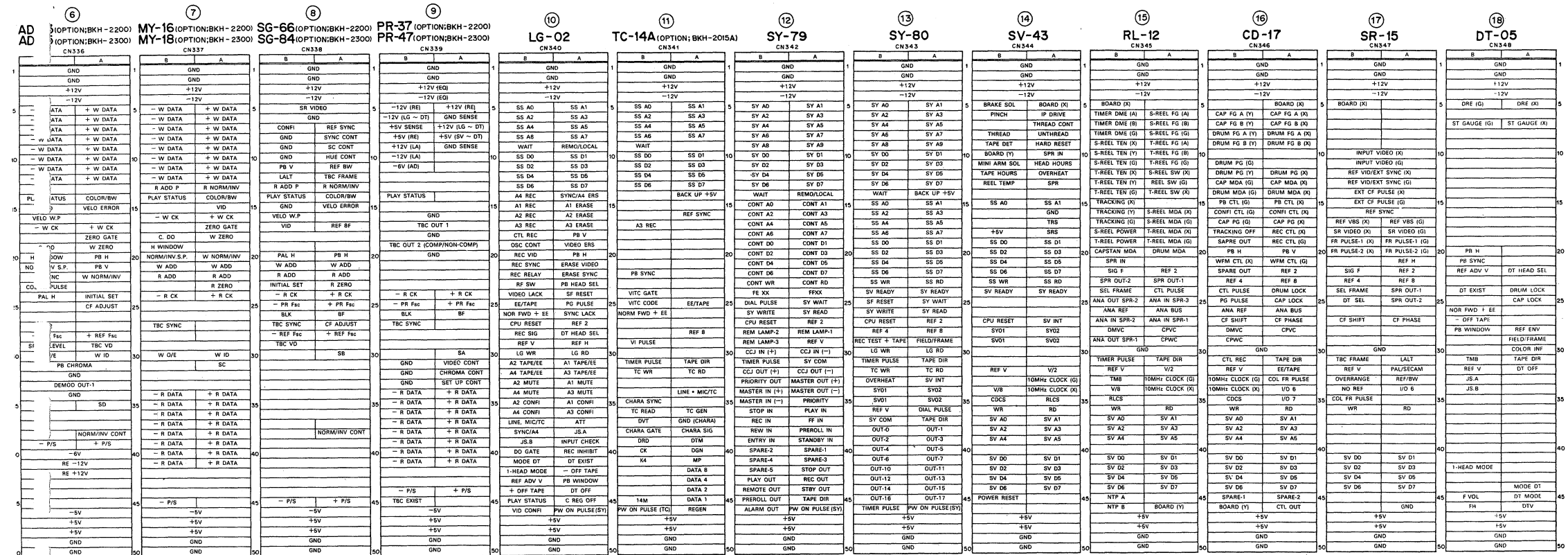
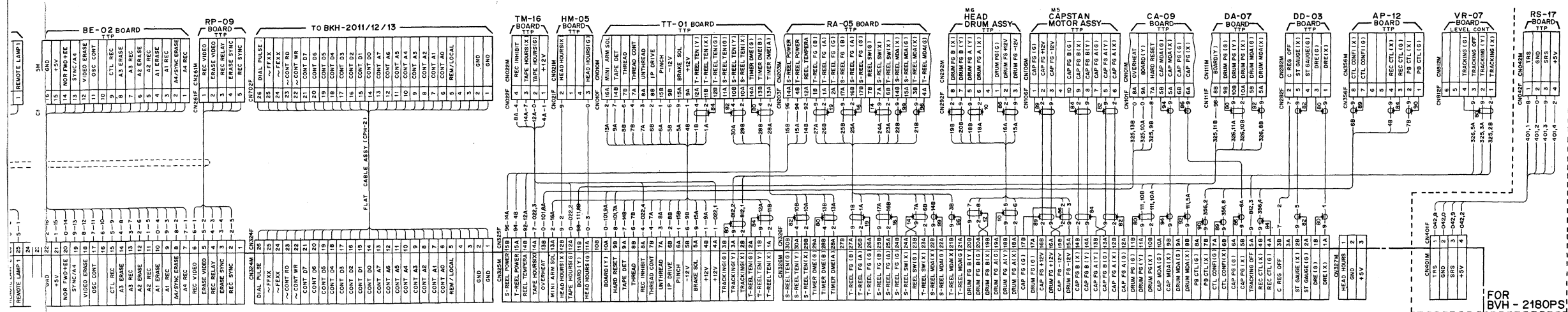




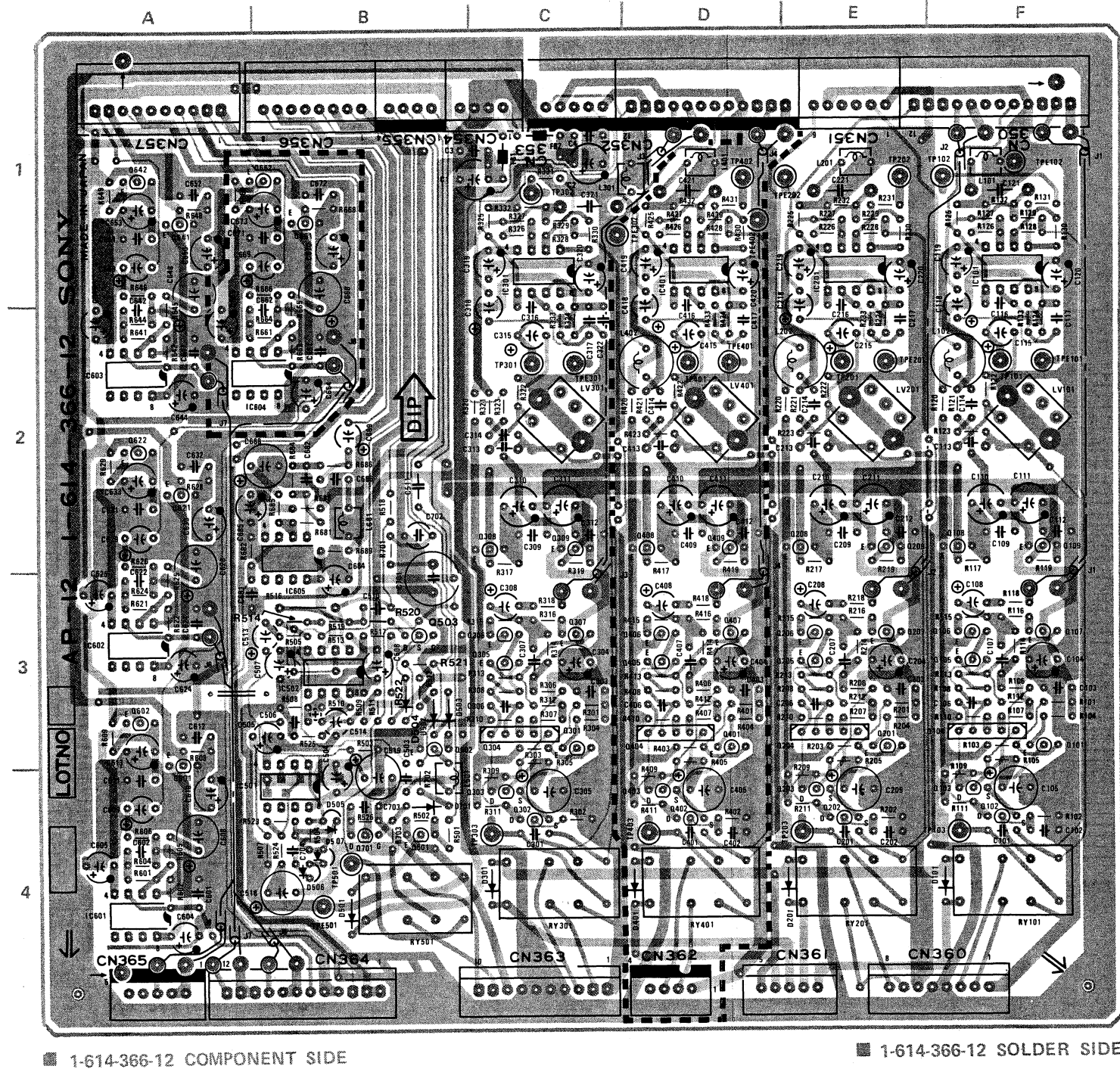
FRAME WIRING
CARD RACK (10/12)
BVH-2000PS; #33401-

FRAME WIRING; CARD RACK; FOR 14 MODEL





AP-12 BOARD (1-614-366-11 & UP)
Component Side



■ 1-614-366-12 COMPONENT SIDE

■ 1-614-366-12 SOLDER SIDE

AP-12 (1-614-366-11 & UP)

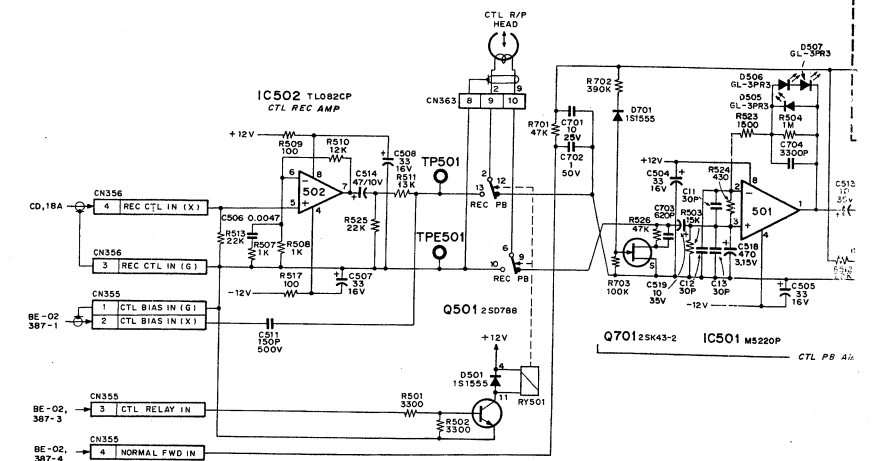
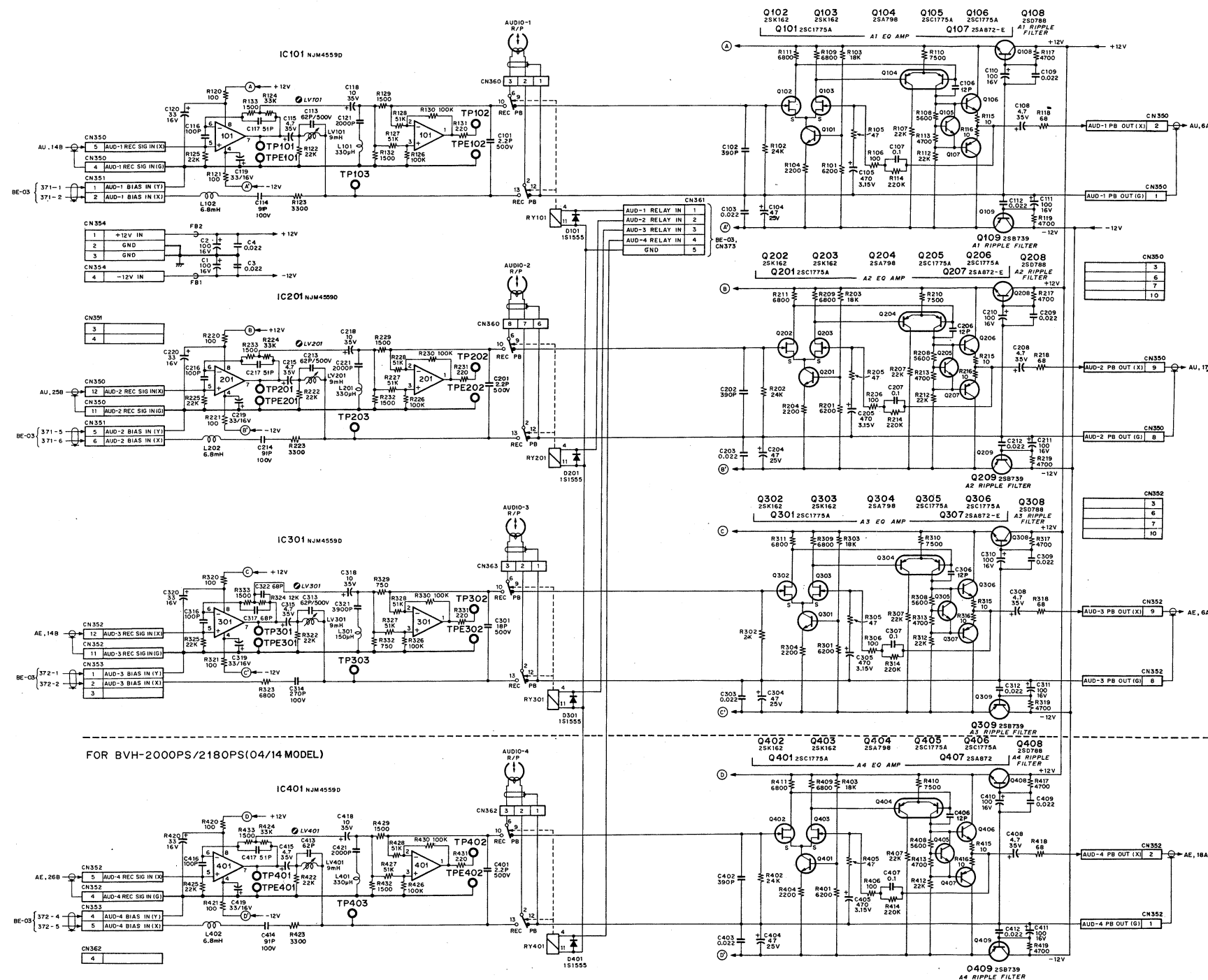
BVH-2000/PM	
BVH-2180/PM	
BVH-2000PS	
BVH-2180PS	
(00/10/02/12 MODEL)	
BVH-2500/P	
CN350M	Q
CN351M 1F	Q
CN352M 1E	Q
CN353M 1D	Q
CN354M 1C	(R
CN355M 1C	Q
CN356M 1B	Q
CN357M 1B	Q
CN360M 1A	Q
CN361M 4F	R
CN363M 4E	R
CN363M 4C	R
CN364M 4B	T
D101 4F	T
D201 4E	T
D301 4C	T
D501 4B	T
D502 3B	T
D503 3B	T
(PS)	
D504 3B	T
D505 4B	
D506 4B	T
D507 4B	T
D701 4B	T
FB1 1C	T
FB2 1C	T
IC101 1F	
IC201 1E	
IC301 1C	T
IC501 4B	
IC502 3B	
IC601 4A	
IC602 3A	
IC603 2A	
IC605 2B	
LV101 2F	
LV201 2E	
LV301 2C	
Q101 3F	
Q102 4F	
Q103 4F	
Q104 3F	
Q105 3F	
Q106 3F	
Q107 3F	
Q108 2F	
Q109 2F	
Q201 3E	
Q202 4E	
Q203 4E	
Q204 3E	
Q205 3E	
Q206 3E	
Q207 3E	
Q208 2E	
Q209 2E	
Q301 3C	
Q302 4C	
Q303 4C	
Q305 3C	
Q306 3C	

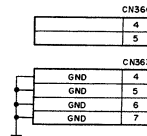
AP-12 (1-614-366-11 & UP)

BYW-2000PS		
BYW-2180PS		
(04/14 MODEL)		
CN350M		Q306 3C
1F		Q307 3C
CN351M		Q308 2C
1E		Q309 2C
CN352M		Q401 3D
1D		Q402 4D
CN353M		Q403 4D
1C		Q404 3D
CN354M		Q405 3D
1C		Q406 3D
CN355M		Q407 3D
1B		Q408 2D
CN356M		Q409 2D
1B		Q501 4B
CN357M		Q502 3B
1A		Q503 3B
CN360M		Q601 3A
4F		Q602 3A
CN361M		Q621 2A
4E		Q622 2A
CN362M		Q641 1A
4D		Q642 1A
CN365M		Q661 1B
4A		Q662 1B
CN363M		Q701 4B
4C		
CN364M		RY101 4F
4B		RY201 4E
		RY301 4C
D101 4F		RY401 4D
D201 4E		RY501 4B
D301 4C		
D401 4D		TP101 2F
D501 4B		TP102 1F
D502 3B		TP103 4F
D503 3B		TP201 2E
D504 3B		TP202 1E
D505 4B		TP203 4E
D506 4B		TP301 2C
D701 4B		TP302 1C
		TP303 4C
FB1 1C		TP401 2D
FB2 1C		TP402 1D
		TP403 4D
		TP501 4B
LC101 1F		
LC201 1E		TPE101
LC301 1C		
LC401 1D		2F
LC501 4B		TPE102
LC502 3B		1F
LC601 4A		TPE201
LC602 3A		2E
LC603 2A		TPE202
LC604 2B		1E
LC605 2B		TPE301
		2C
LV101 2F		TPE302
LV201 2E		1D
LV301 2C		TPE401
LV401 2D		2D
		TPE402
		1D
O101 3F		TPE501
O102 4F		4B
O103 4F		
O104 3F		
O105 3F		
O106 3F		
O107 3F		
O108 2F		
O109 2F		
O201 3E		
O202 3E		
O203 4E		
O204 3E		
O205 3E		
O206 3E		
O207 3E		
O208 2E		
O209 2E		
O301 3C		
O302 4C		
O303 4C		
O304 3C		
O305 3C		

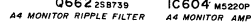
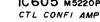
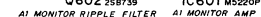
AP-12 BOARD

Audio/CTL, REC/PB Preamplifier



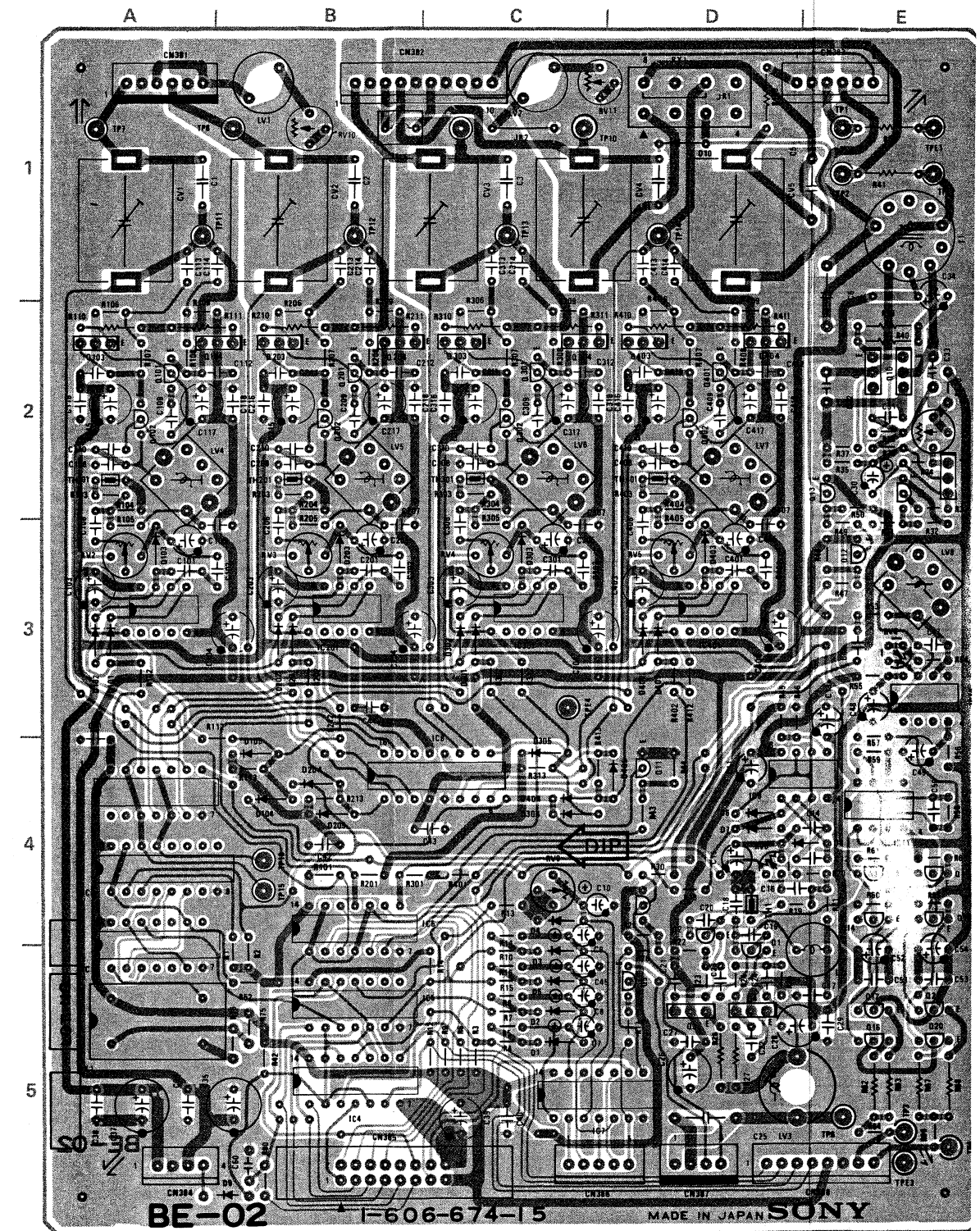


BVH-2000(J);	# 33301-	BVH-2180(J);	# 10001-
BVH-2000(U/C);	# 33501-	BVH-2180(U/C);	# 10001-
BVH-2000PS;	# 33401-	BVH-2180PS;	# 10001-
BVH-2000PM;	# 30201-	BVH-2180PM;	# 10001-
BVH-2500(J);	# 11001-		
BVH-2500(U/C);	# 11501-		
BVH-2500P;	# 10701-		



BE-02 BOARD (1-606-674-14, 15)

Component Side

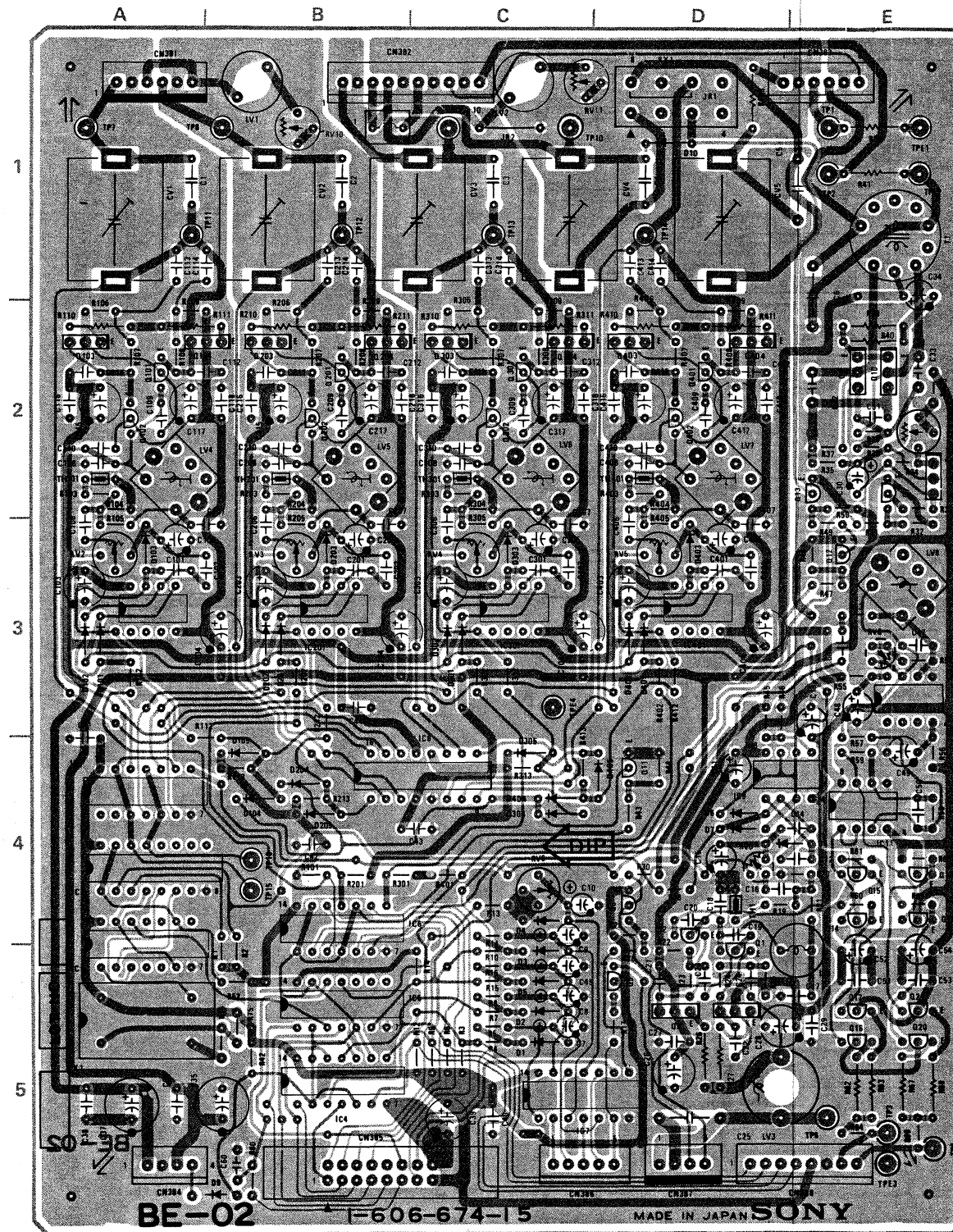


1-606-674-15
COMPONENT SIDE

1-606-674-15
SOLDER SIDE

BE-02 BOARD (1-606-674-14, 15)

Component Side



1-606-674-15
COMPONENT SIDE

1-606-674-15
SOLDER SIDE

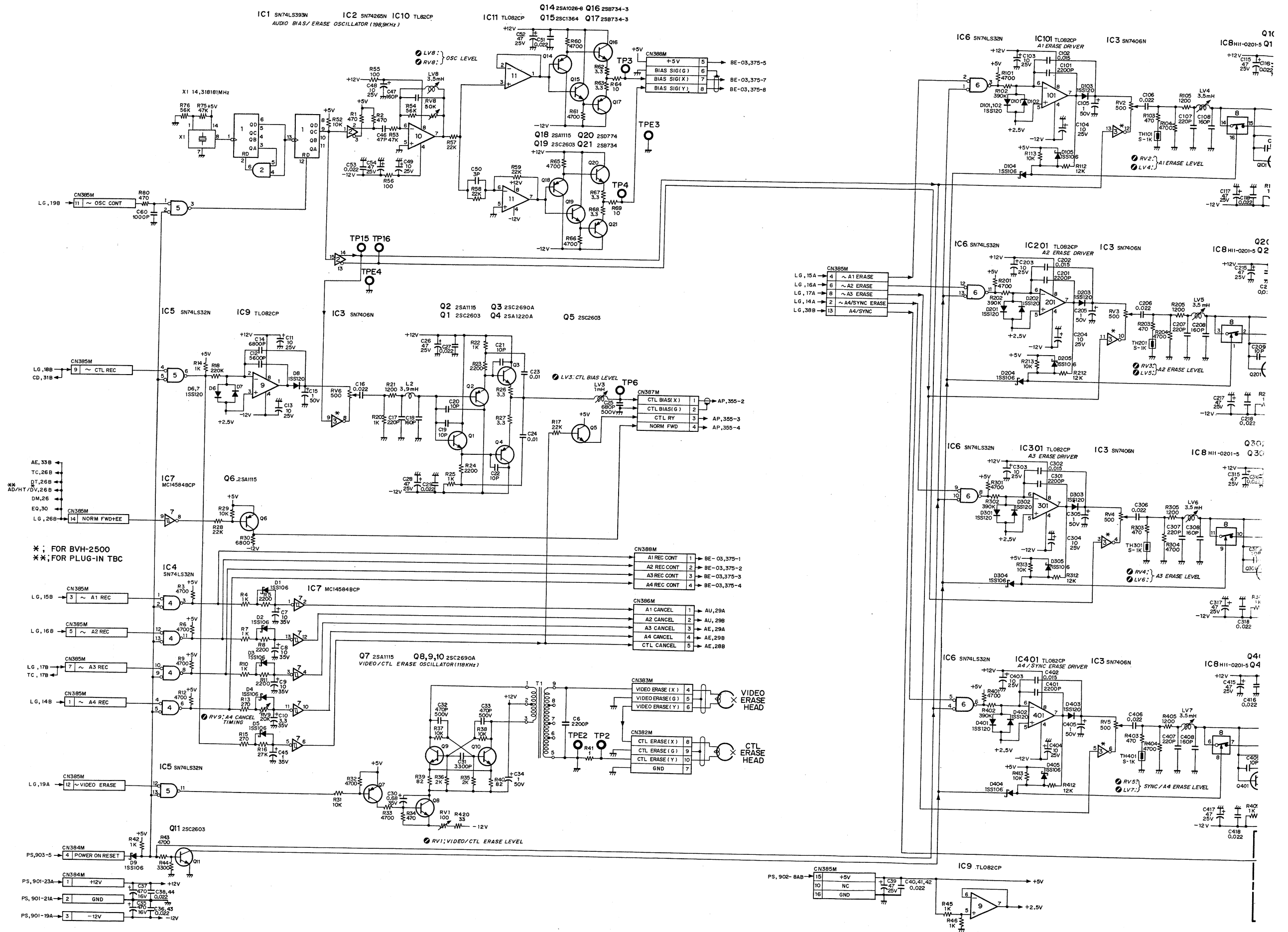
BE-02 (1-606-674-14 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CN381M	Q6	4D
1A	Q7	2E
CN382M	Q8	2E
1C	Q9	2E
CN383M	Q10	2E
1E	Q11	4D
CN384M	(PS 04 MODEL)	
5A	Q12	3E
CN385M	Q13	2E
CN386M	Q14	4E
5D	Q15	4E
CN387M	Q16	5E
5D	Q17	5E
CN388M	Q18	4E
5E	Q19	4E
CV1	Q20	5E
CV2	Q21	5E
CV3	Q101	2A
(PS 04 MODEL)	Q102	2A
CV4	Q103	2A
1C	Q104	2B
CV5	Q201	2B
1D	Q202	2B
	Q203	2B
D1	Q204	2B
D2	Q301	2C
D3	Q302	2C
D4	Q303	2C
D5	Q304	2C
D6	Q401	2D
D7	Q402	2D
D8	Q403	2D
D9	Q404	2D
D10	RV1	2E
D101	RV2	3A
D102	RV3	3B
D103	RV4	3C
D104	RV5	3D
D105	RV6	4D
D201	RV8	3E
D202	RV9	4C
D203	RV10	1B
D204	(PS 04 MODEL)	
D205	RV11	1D
D301	(PS 04 MODEL)	
D302	RV1	1D
D303		
D304	(PS 04 MODEL)	
D305	RV1	1D
D401	T1	1E
D402	TH101	2A
D403	TH201	2B
D404	TH301	2C
D405	TH401	2D
IC1	TP1	1E
IC2	TP2	1E
IC3	TP3	5E
IC4	TP4	5E
IC5	TP6	5E
IC6	TP7	1A
IC7	TP8	1B
IC8	TP9	1C
IC9	(PS 04 MODEL)	
IC10	TP10	1C
IC11		
IC101	TP11	1A
IC201	TP12	1B
IC301	TP13	1C
IC401	TP14	1D
L2	TP15	4B
LV1	TP16	4B
(PS 04 MODEL)	TPE1	1E
LV2	TPE2	1E
LV3	TPE3	5E
LV4	TPE4	3C
LV5		
LV6	X1	5A
LV7		
LV8		
Q1		
Q2		
Q3		
Q4		
Q5		

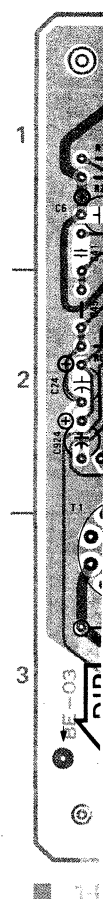
BE-02 BOARD

Audio Bias/Erase Oscillator



BE-03

Col



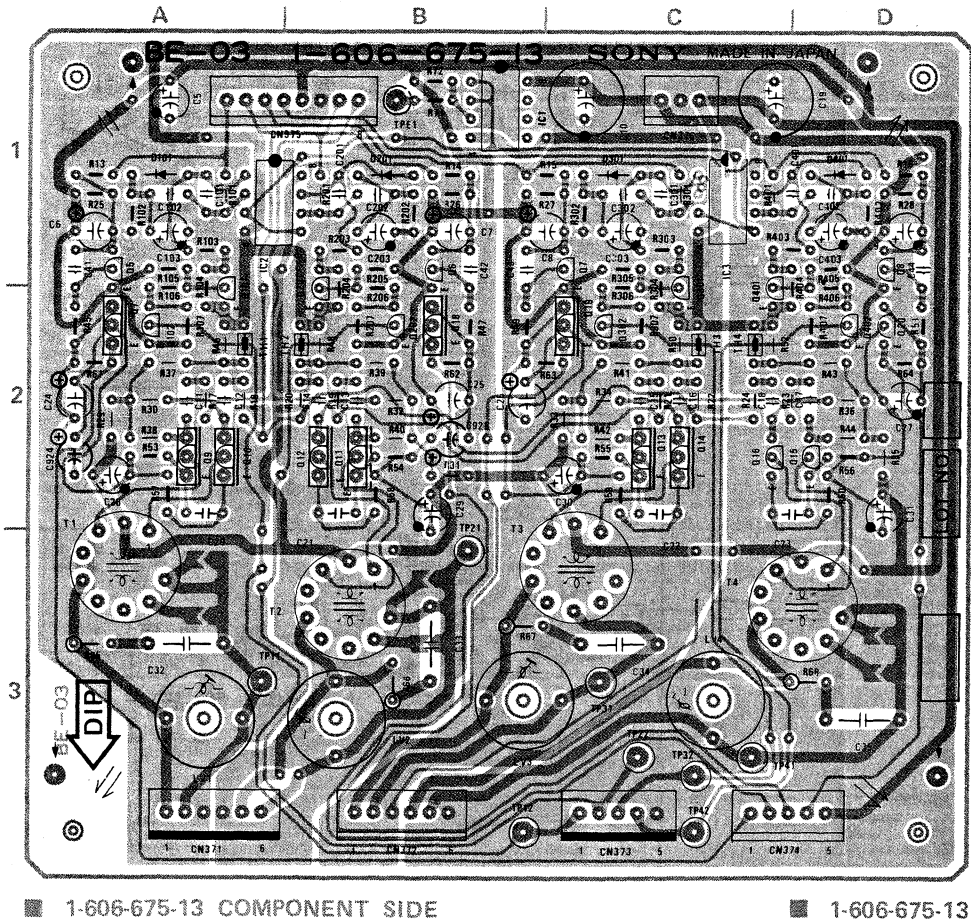
BE-04

Cc





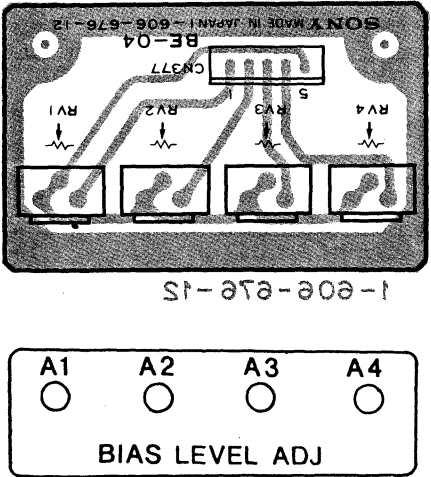
BE-03 BOARD (1-606-675-12, 13)
Component Side



BE-03 (1-606-675-12 & UP)

BVH-2800/PS/PM	
BVH-2830/PS/PM	
BVH-2500P	
CN371M	Q17 2A
3A	Q18 2B
CN372M	Q19 2C
3B	
CN373M	(PS 04 MODEL)
3C	Q20 2D
CN374M	
3D	Q101 1A
CN375M	Q102 2A
1A	Q201 1B
CN376M	Q202 2B
1C	Q301 1C
	Q302 2C
D101 1A	
D201 1B	(PS 04 MODEL)
D301 1C	Q401 1D
	Q402 2D
(PS 04 MODEL)	
D401 1D	TH1 2A
	TH2 2B
IC1 1B	TH3 2C
IC2 1A	
IC3 1C	(PS 04 MODEL)
	TH4 2C
LV1 3A	TP11 3A
LV2 3B	TP12 3B
LV3 3C	TP21 3B
(PS 04 MODEL)	TP22 3C
LV4 3C	TP31 3C
	TP32 3C
Q5 1A	
Q6 1B	(PS 04 MODEL)
Q7 1C	TP41 3C
	TP42 3C
(PS 04 MODEL)	
Q8 1D	TPE1 1B
Q9 2A	
Q10 2A	
Q11 2B	
Q12 2B	
Q13 2C	
Q14 2C	
(PS 04 MODEL)	
Q15 2D	
Q16 2C	

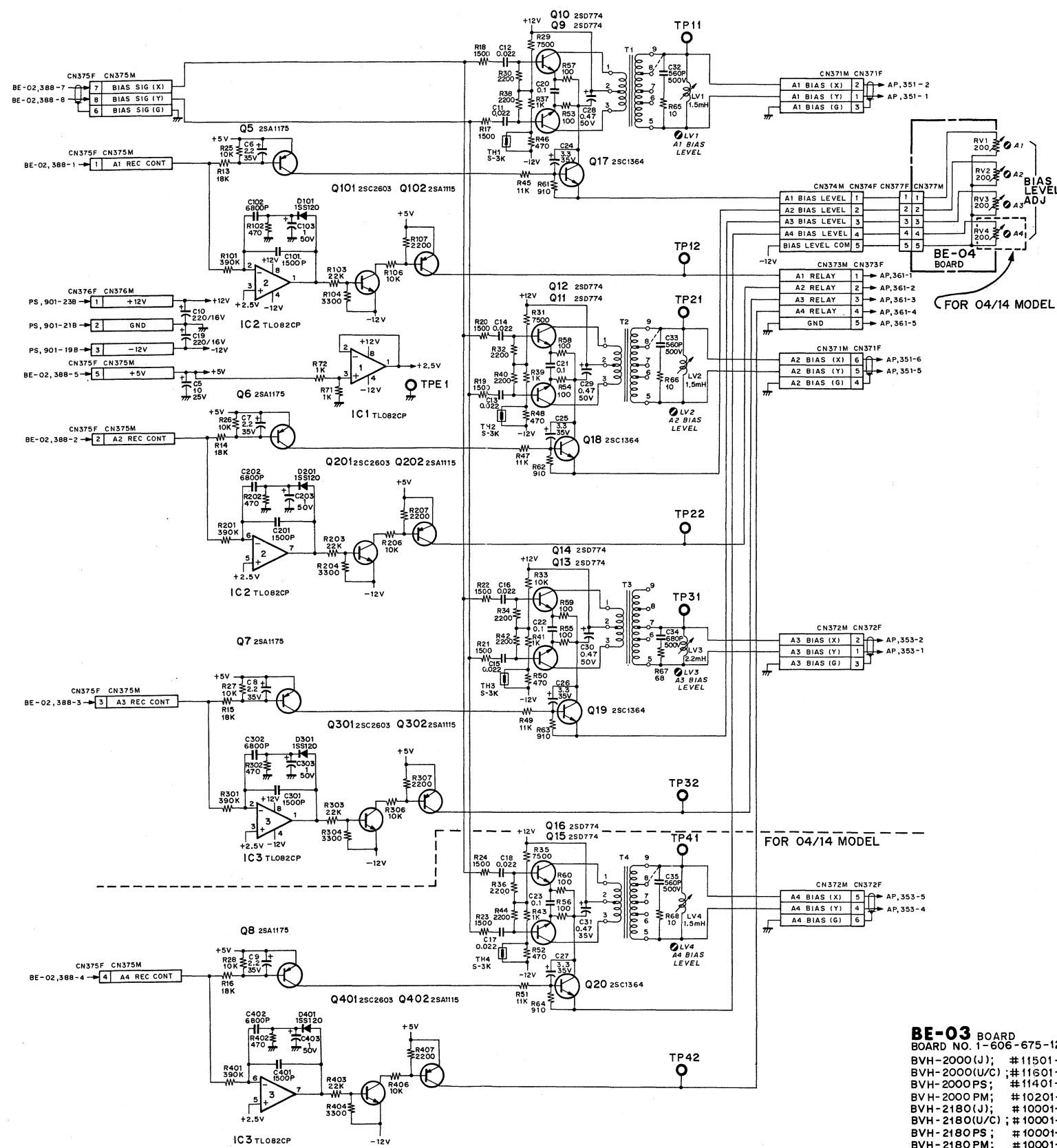
BE-04 BOARD (1-606-676-12)
Component Side



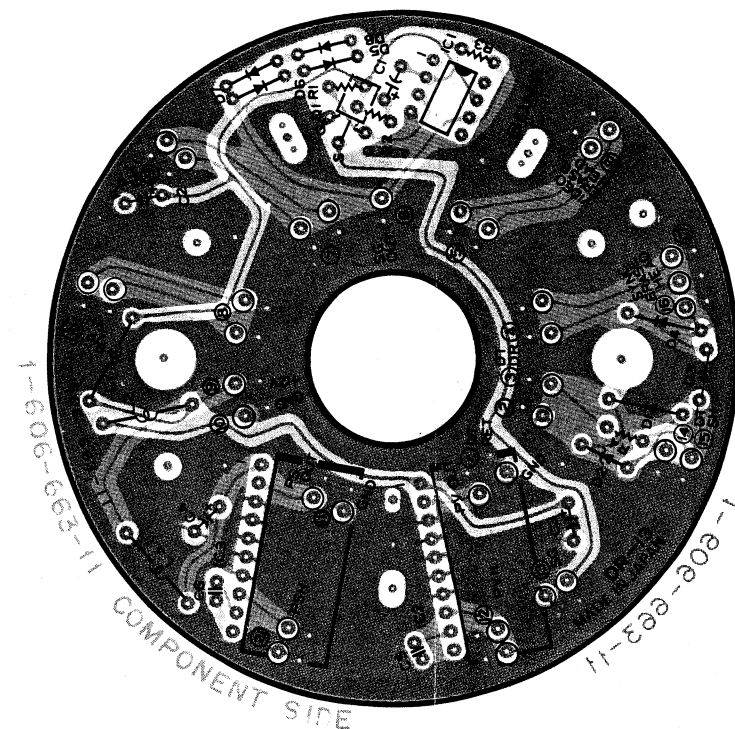
BE-03/BE-04 BOARD
Audio Bias Amplifier
Audio Bias Level Adj.

TAPE TRANSPORT BE-03, BE-04

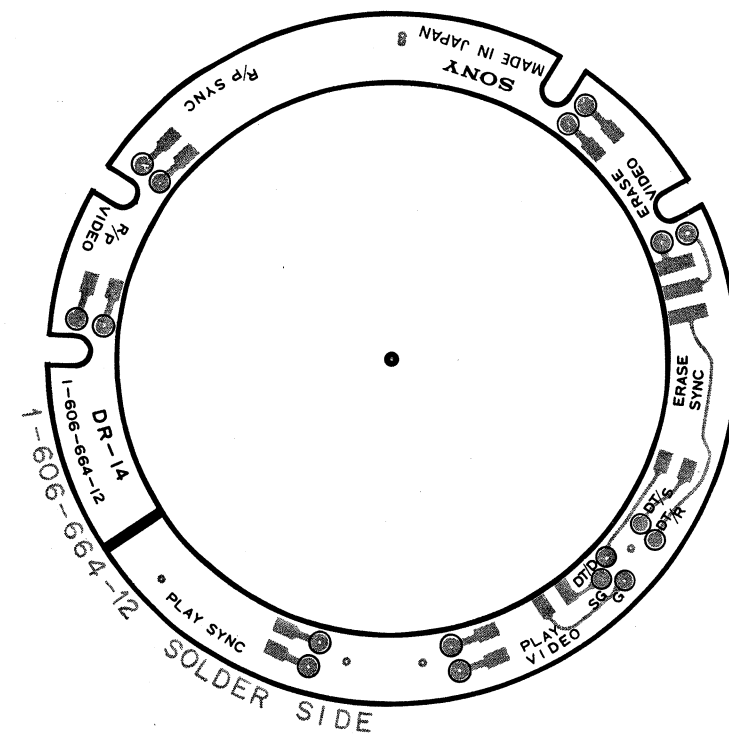
BE-03, BE-04 TAPE TRANSPORT



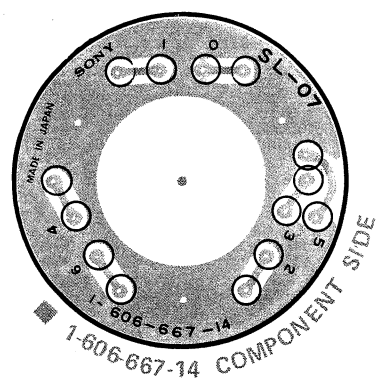
DR-13 BOARD (1-606-663-11)
Component Side



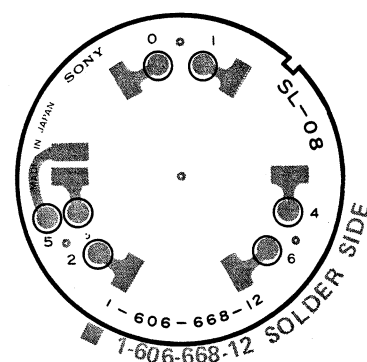
DR-14 BOARD (1-606-664-12)
Solder Side



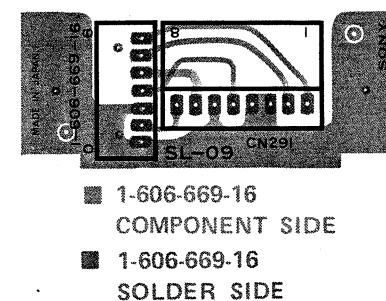
SL-07 BOARD (1-606-667-14)
Component Side



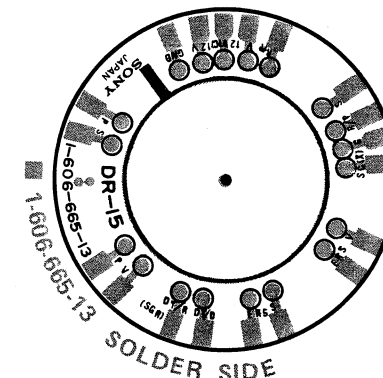
SL-08 BOARD (1-606-668-12)
Solder Side



SL-09 BOARD (1-606-669-16)
Component Side

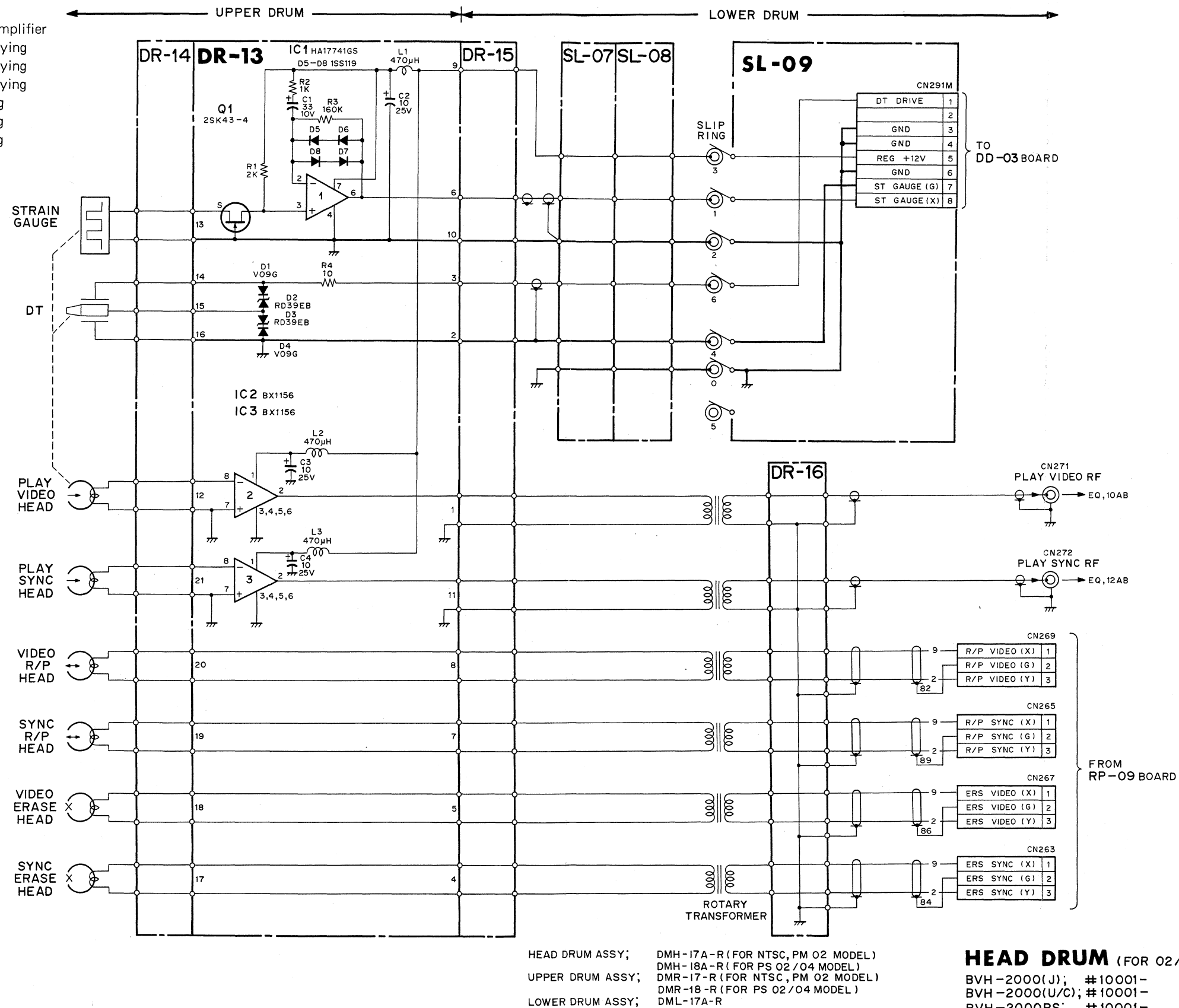


DR-15 BOARD (1-606-665-13)
Solder Side



HEAD DRUM ; FOR 02/04 MODEL

DR-13 BOARD: Video/Sync PB Amplifier
 DR-14 BOARD: Rotary Head Relaying
 DR-15 BOARD: Rotary Head Relaying
 DR-16 BOARD: Rotary Head Relaying
 SL-07 BOARD: Slip Ring Relaying
 SL-08 BOARD: Slip Ring Relaying
 SL-09 BOARD: Slip Ring Relaying

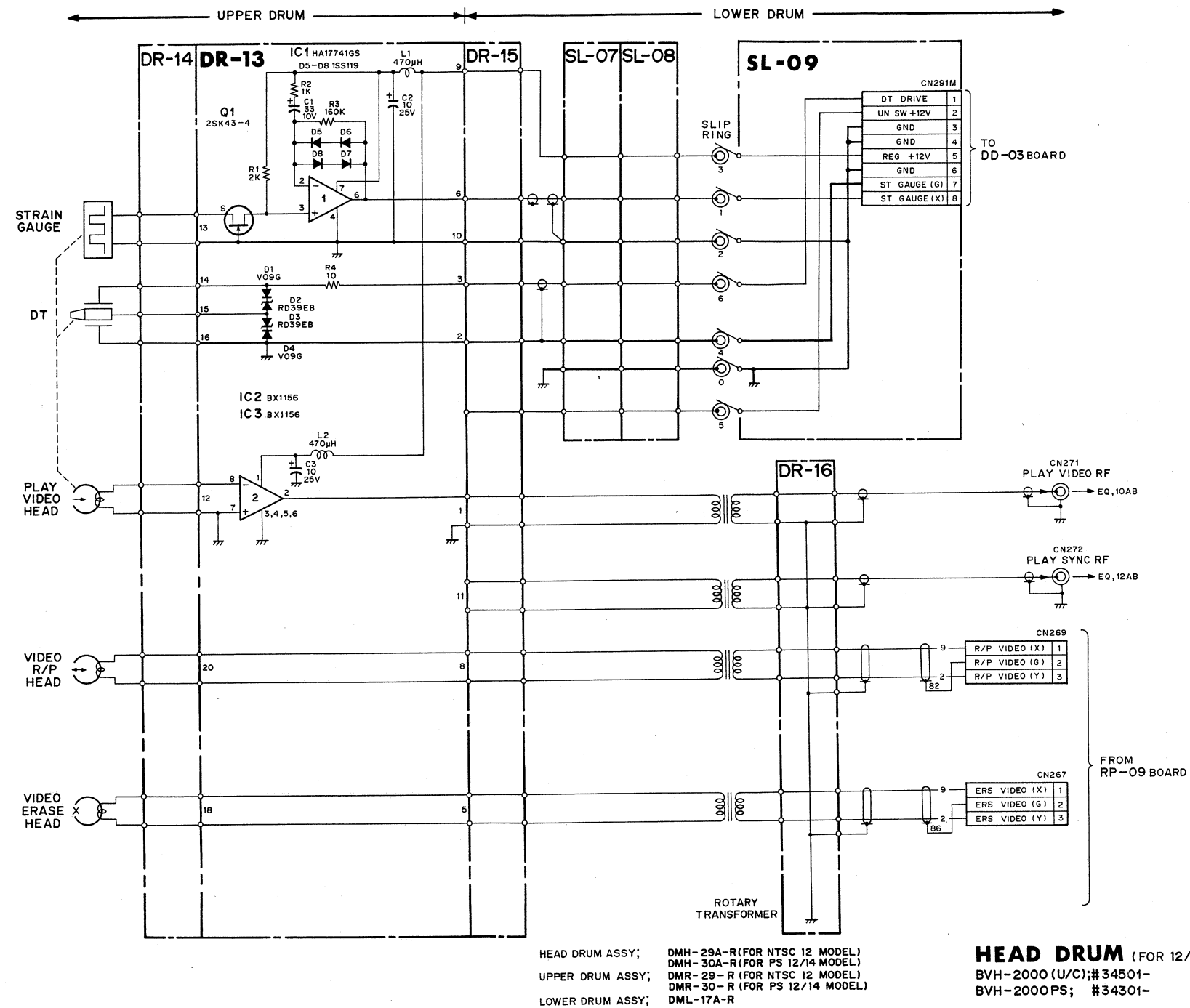


HEAD DRUM (FOR 02/04)

BVH-2000(J); #10001- BVH-2180(J); #10001-
 BVH-2000(U/C); #10001- BVH-2180(U/C); #10001-
 BVH-2000PS; #10001- BVH-2180PS; #10001-
 BVH-2000PM; #10001- BVH-2180PM; #10001-

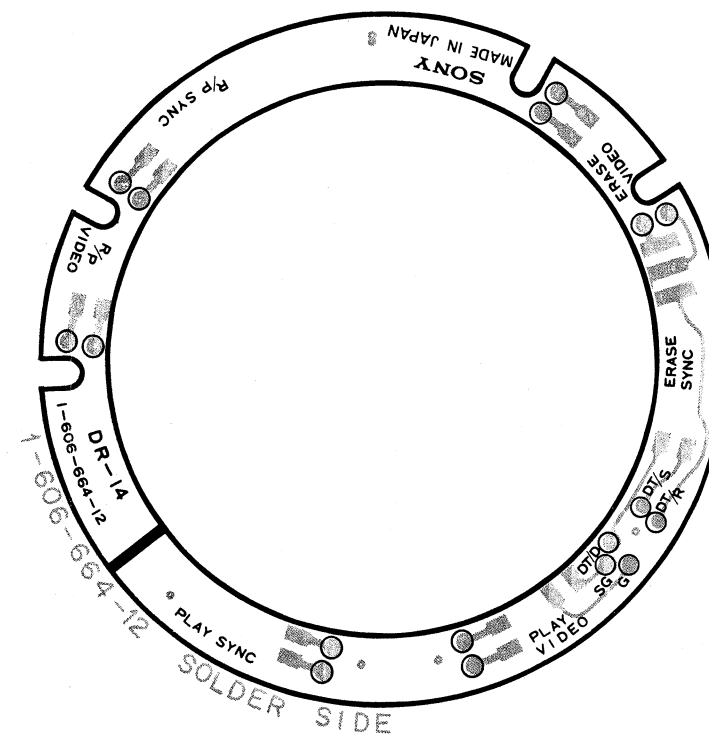
HEAD DRUM; FOR 12/14 MODEL

DR-13 BOARD: Video/Sync PB Amplifier
 DR-14 BOARD: Rotary Head Relaying
 DR-15 BOARD: Rotary Head Relaying
 DR-16 BOARD: Rotary Head Relaying
 SL-07 BOARD: Slip Ring Relaying
 SL-08 BOARD: Slip Ring Relaying
 SL-09 BOARD: Slip Ring Relaying

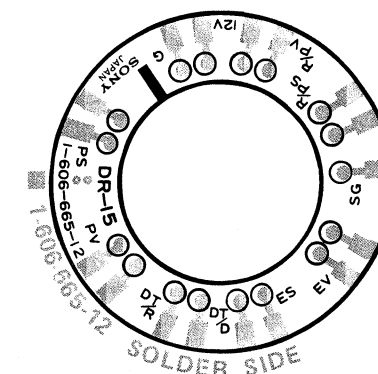




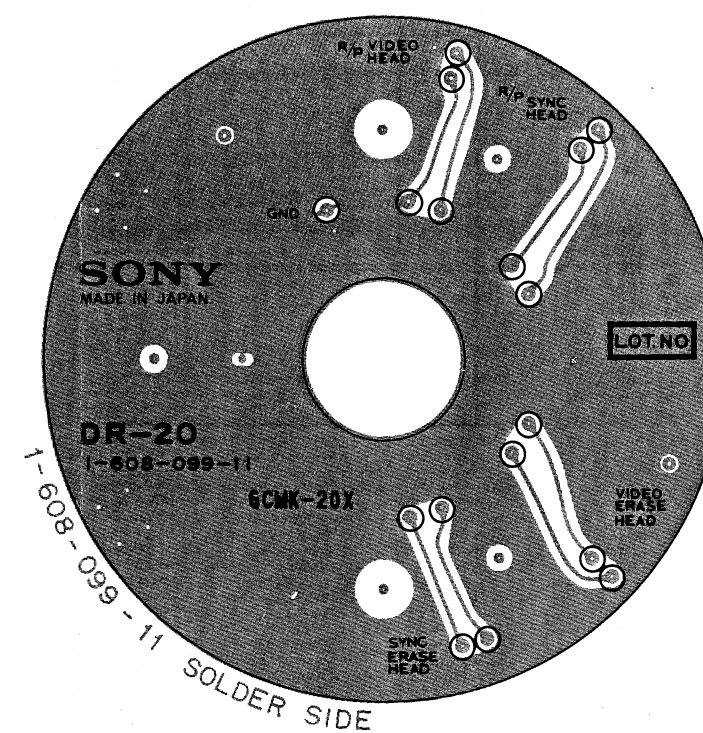
DR-14 BOARD (1-606-664-12)
Solder Side



DR-15 BOARD (1-606-665-12)
Solder Side



DR-20 BOARD (1-608-099-11)
Component Side

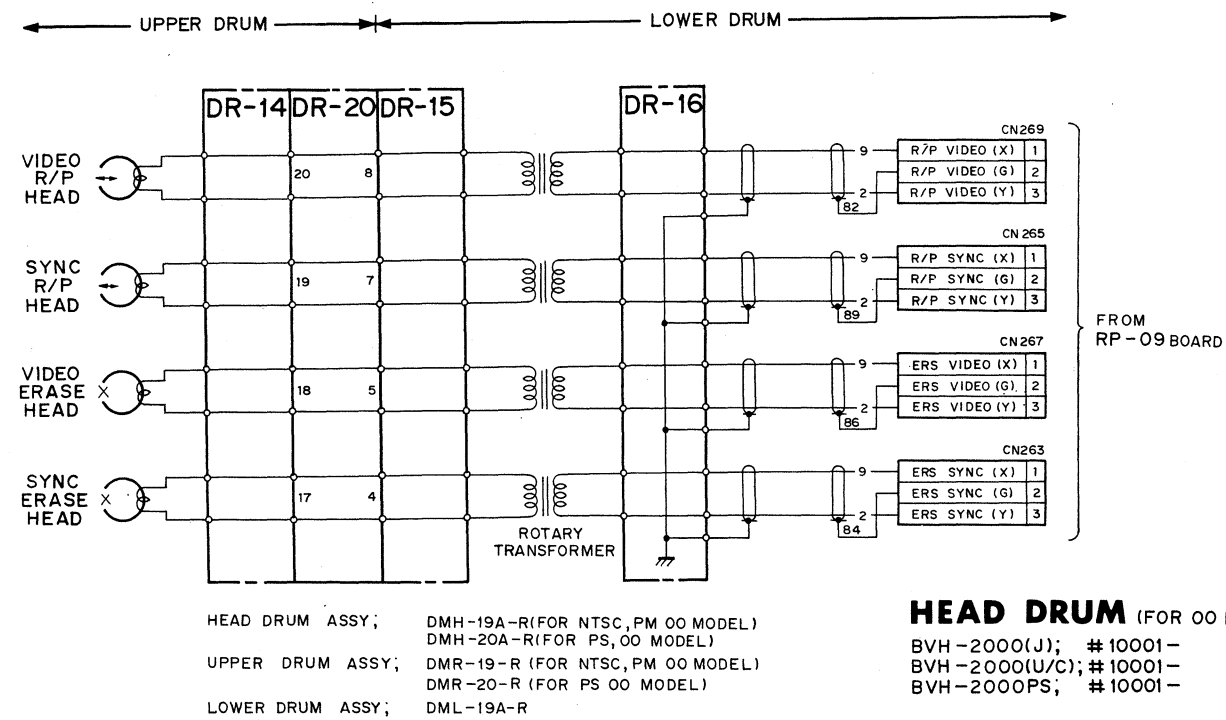


HEAD DRUM; FOR 00 MODEL

DR-14 BOARD: Rotary Head Relaying

DR-15 BOARD: Rotary Head Relaying

DR-20 BOARD: Rotary Head Relaying

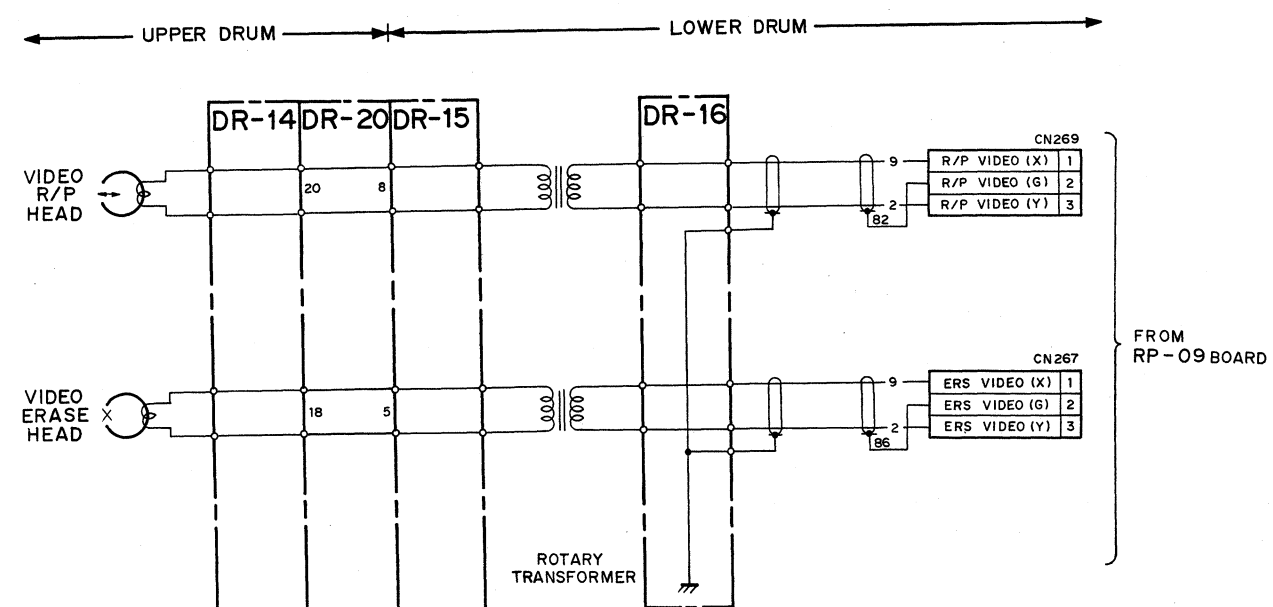


HEAD DRUM; FOR 10 MODEL

DR-14 BOARD: Rotary Head Relaying

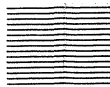
DR-15 BOARD: Rotary Head Relaying

DR-20 BOARD: Rotary Head Relaying

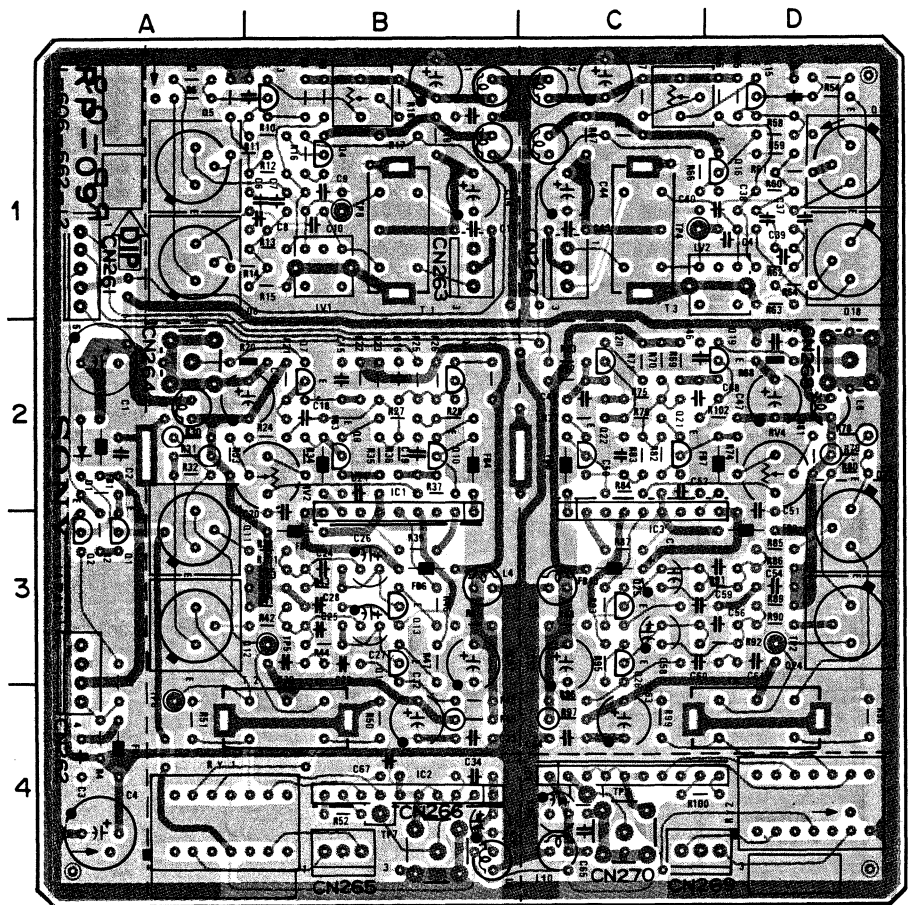


HEAD DRUM ASSY; DMH-31A-R (FOR NTSC 10 MODEL)
 DMH-32A-R (FOR PS 10 MODEL)
 UPPER DRUM ASSY; DMR-31-R (FOR NTSC 10 MODEL)
 DMR-32-R (FOR PS 10 MODEL)
 LOWER DRUM ASSY; DML-19A-R

HEAD DRUM (FOR 10 MODEL)
 BVH-2000(U/C); #34501-
 BVH-2000PS; #34301-



RP-09 BOARD (1-606-662-12)
Component Side



1-606-662-12 COMPONENT SIDE

SI-S88-808-1

RP-09 (1-606-662-12 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CN261M	RV1	1B
1A	RV2	2B
CN262M	RV3	1C
3A	RV4	2D
CN263M		
1B	RY1	4A
CN264M	RY2	4D
2A		
CN265M	TP2	3D
4B	TP3	4C
CN266M	TP4	1C
4B	TP5	3B
CN267M	TP6	4A
1C	TP7	4B
CN268M	TP8	1B
2D		
CN269M		
4C		
CN270M		
4C		

D1	2A
D2	2C

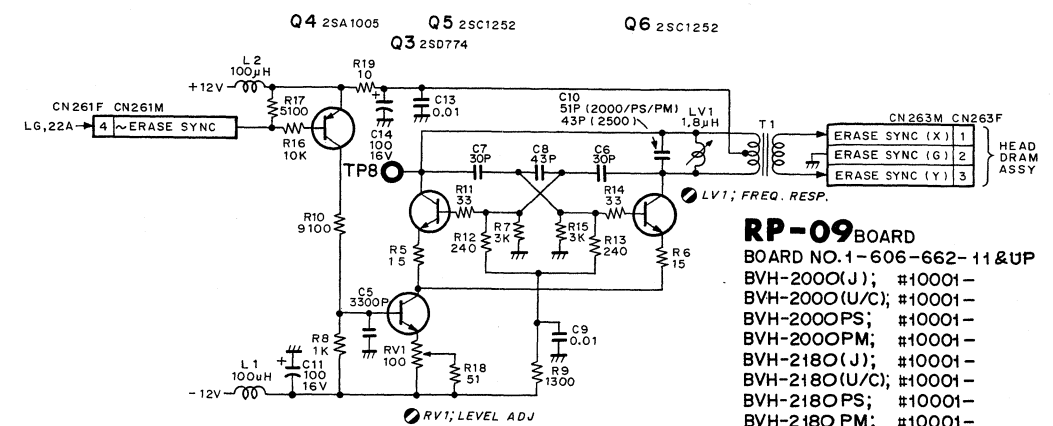
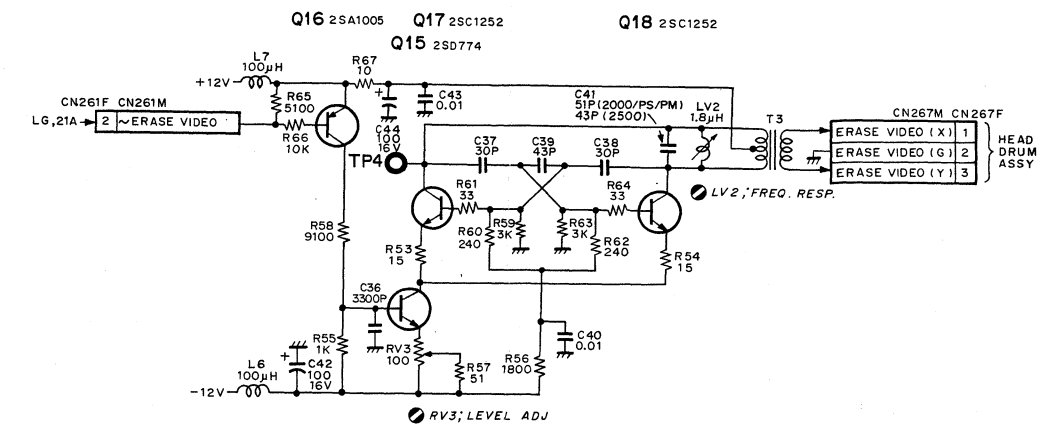
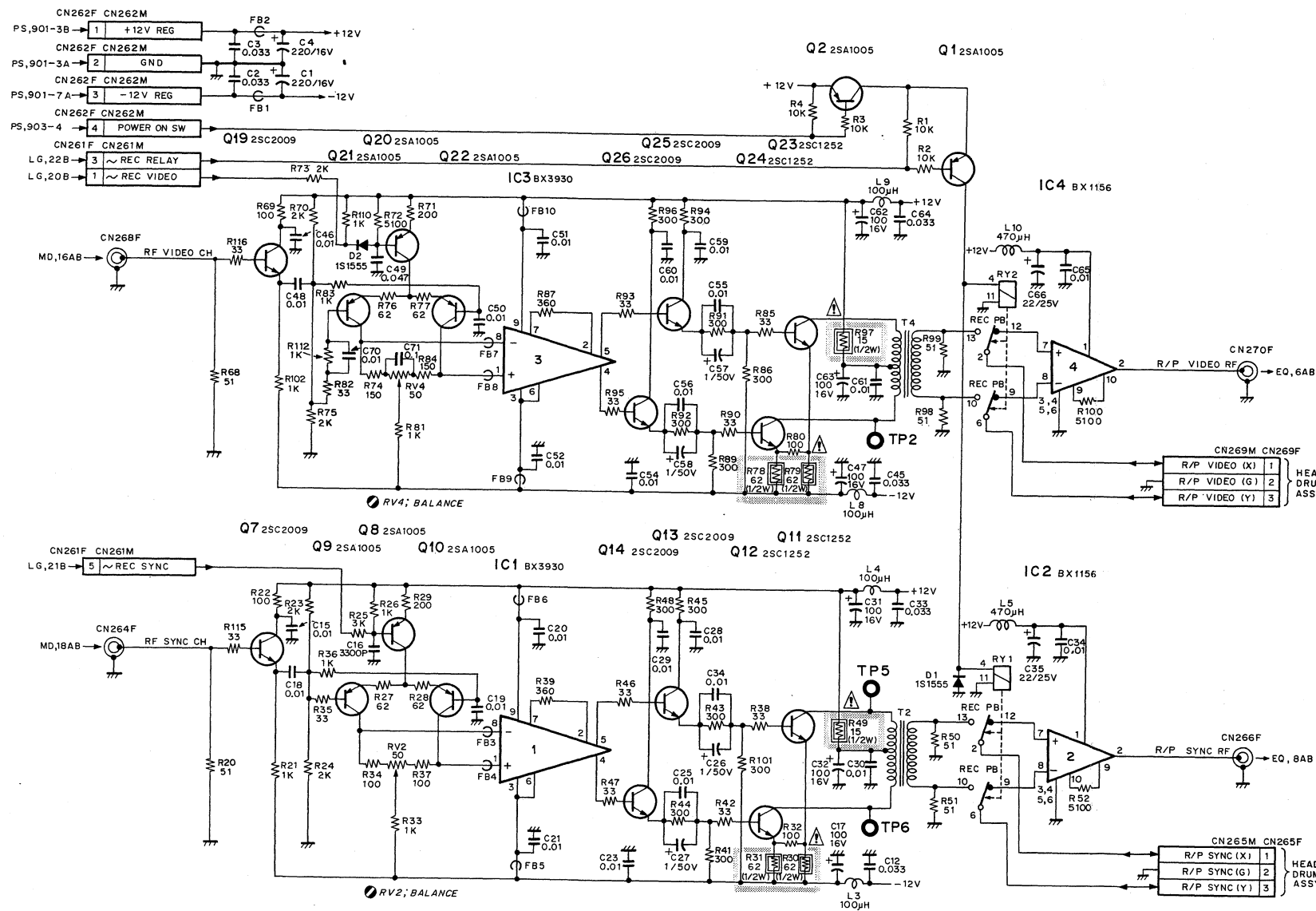
IC1	2B
IC2	4B
IC3	2C
IC4	4C

LV1	1B
LV2	1D

Q1	3A
Q2	3A
Q3	1B
Q4	1B
Q5	1A
Q6	1A
Q7	2B
Q8	2B
Q9	2B
Q10	2B
Q11	3A
Q12	3A
Q13	3B
Q14	3B
Q15	1D
Q16	1D
Q17	1D
Q18	1D
Q19	2D
Q20	2C
Q21	2C
Q22	2C
Q23	3D
Q24	3D
Q25	3C
Q26	3C

RP-09 BOARD

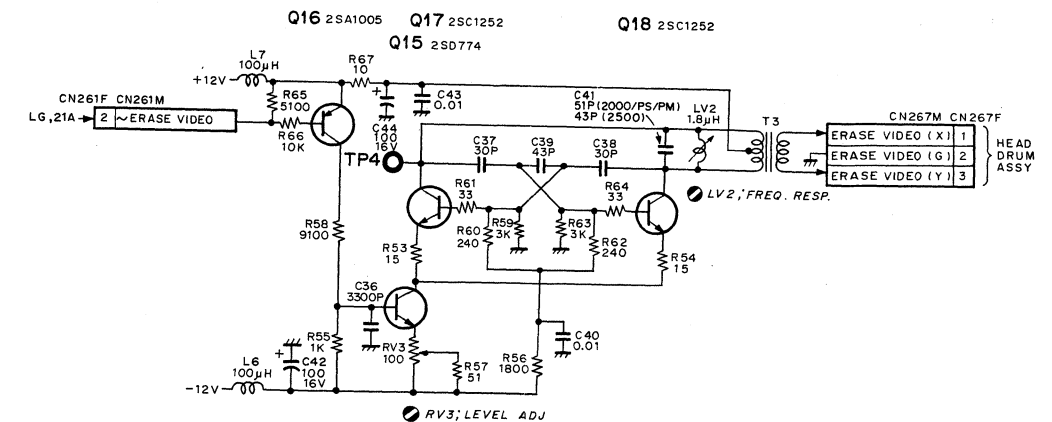
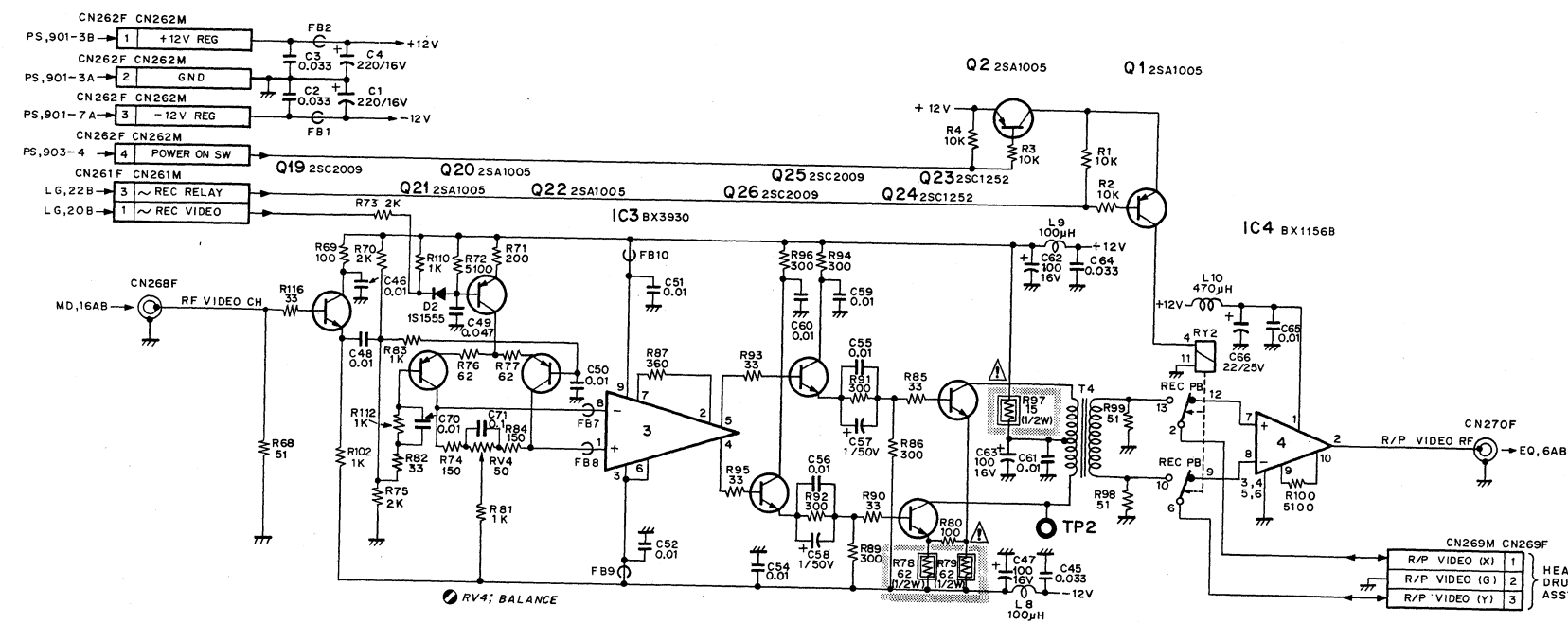
Video/Sync R/P Amplifier (For R/P Head)



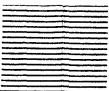
RP-09 BOARD
 BOARD NO.1-606-662-11&UP
 BVH-2000(J); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000PS; #10001-
 BVH-2000PM; #10001-
 BVH-2180(J); #10001-
 BVH-2180(U/C); #10001-
 BVH-2180PS; #10001-
 BVH-2180PM; #10001-
 BVH-2500(J); #10001-
 BVH-2500(U/C); #10001-
 BVH-2500P; #10001-

RP-09 BOARD

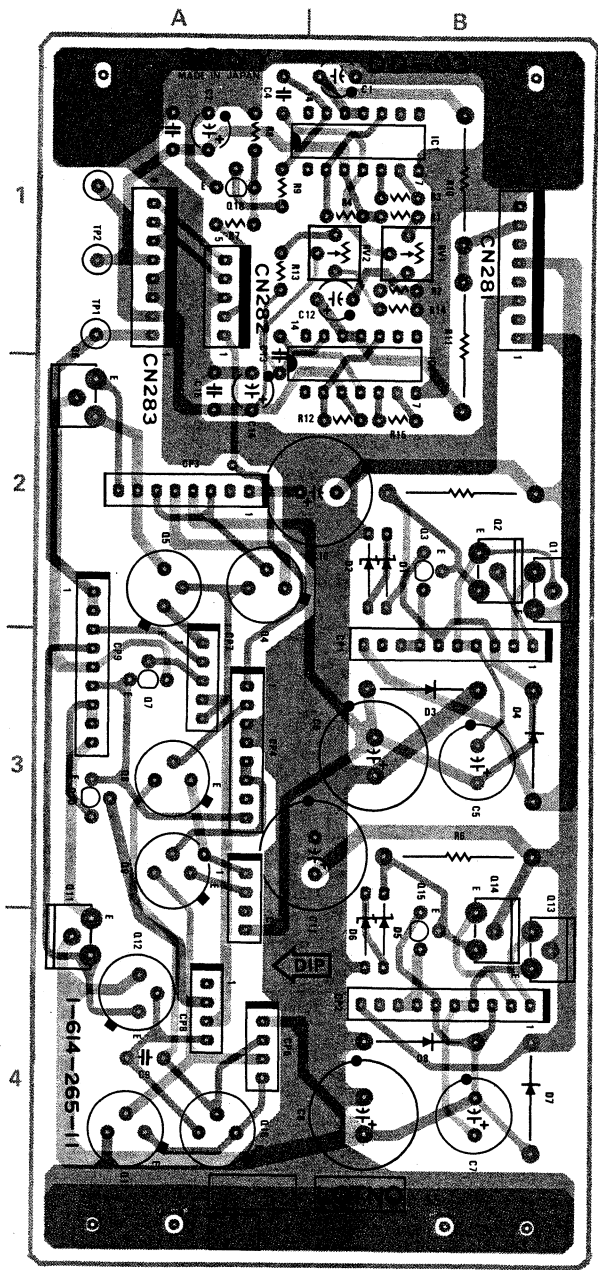
Video/Sync R/P Amplifier (For R/P Head)



RP-09 BOARD (FOR 10/12/14)
 BOARD NO.1-606-662-11&UP
 BVH-2000(U/C); # 34501-
 BVH-2000PS; # 34301-



DD-03 BOARD (1-614-265-11)
Component Side



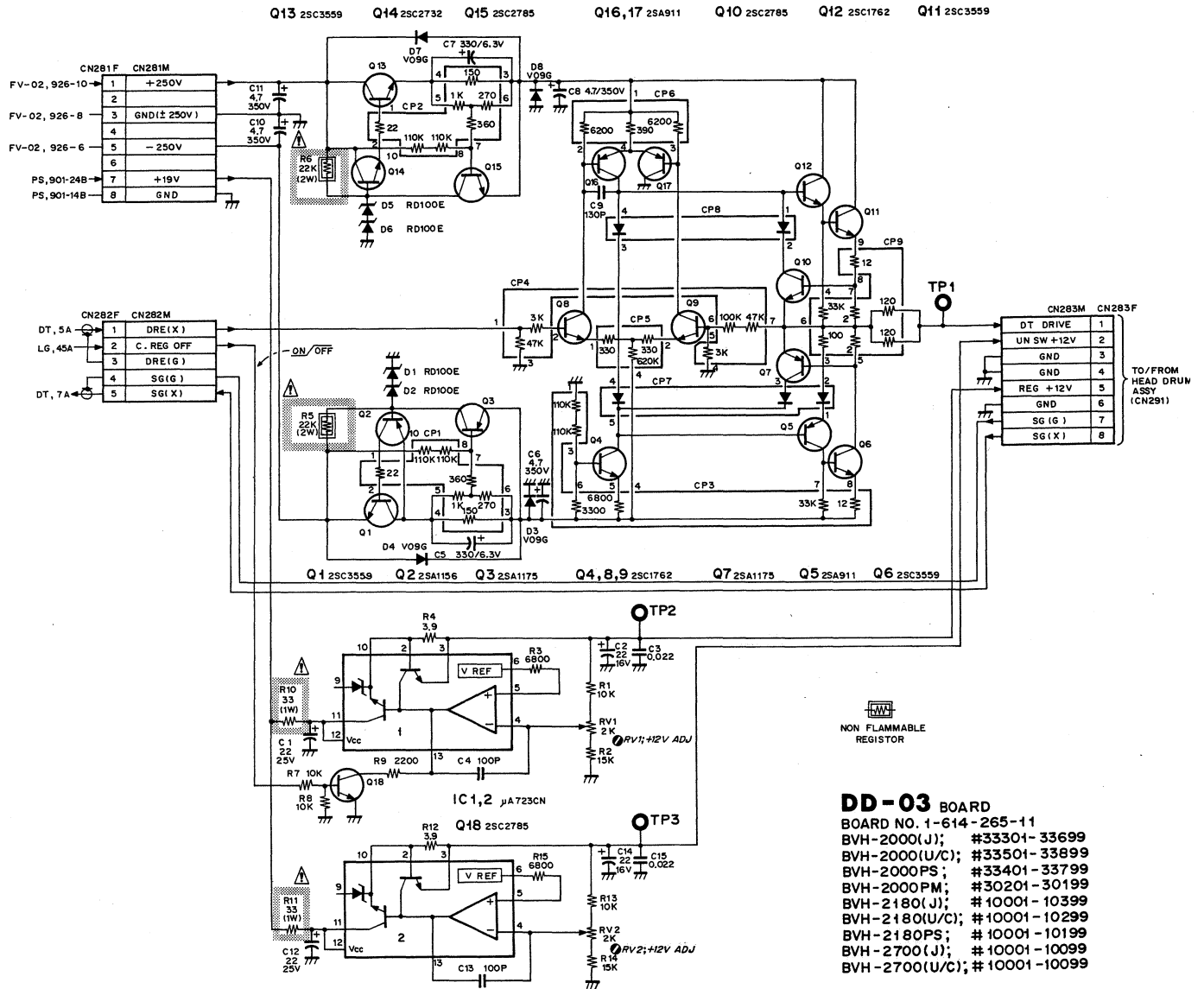
■ 1-614-265-11 COMPONENT SIDE
■ 1-614-265-11 SOLDER SIDE

DD-03 (1-614-265-11)

- BVH-2000
(02/12 MODEL)
- BVH-2000PS
(02/12/04/14 MODEL)
- BVH-2000PM
BVH-2180/PS/PM
- CN281M 1B
- CN282M 1A
- CN283M 1A
- CP1 3B
- CP2 4B
- CP3 2A
- CP4 3A
- CP5 3A
- CP6 4A
- CP7 3A
- CP8 4A
- CP9 3A
- D1 2B
- D2 2B
- D3 3B
- D4 3B
- D5 4B
- D6 4B
- D7 4B
- D8 4B
- IC1 1B
- IC2 2B
- Q1 2B
- Q2 2B
- Q3 2B
- Q4 2A
- Q5 2A
- Q6 2A
- Q7 3A
- Q8 3A
- Q9 3A
- Q10 3A
- Q11 4A
- Q12 4A
- Q13 4B
- Q14 4B
- Q15 4B
- Q16 4A
- Q17 4A
- Q18 2A
- RV1 1A
- RV2 1A
- TP1 1A
- TP2 1A
- TP3 1A

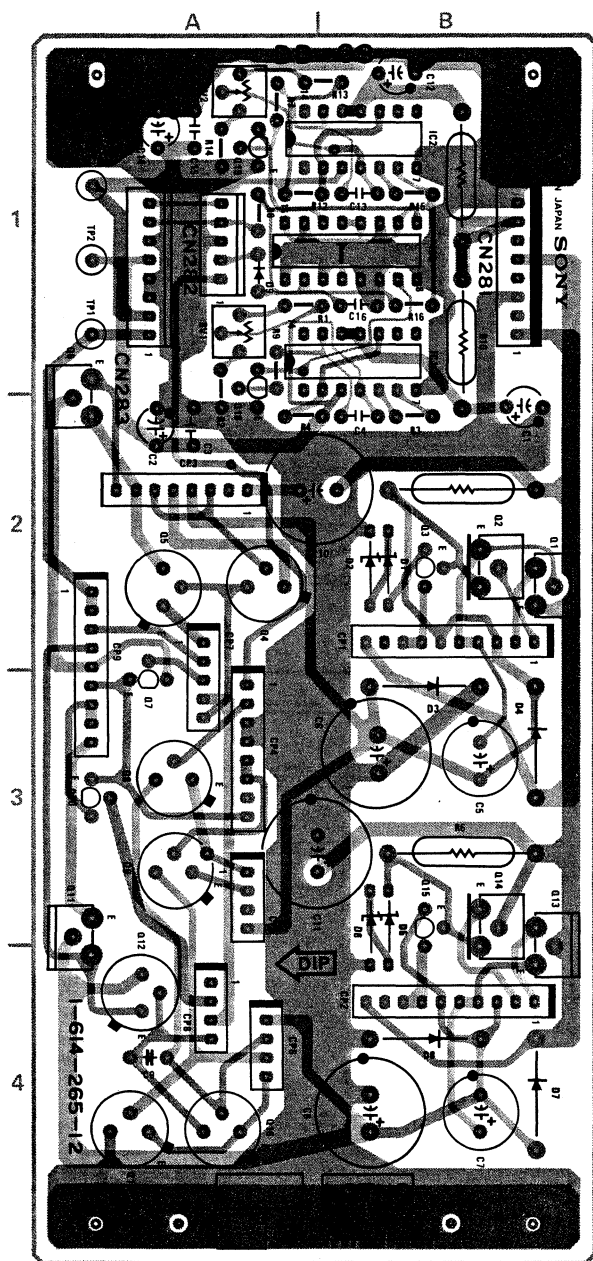
DD-03 BOARD

DT Drive



DD-03 BOARD (1-614-265-12)

Component Side



■ 1-614-265-12 COMPONENT SIDE

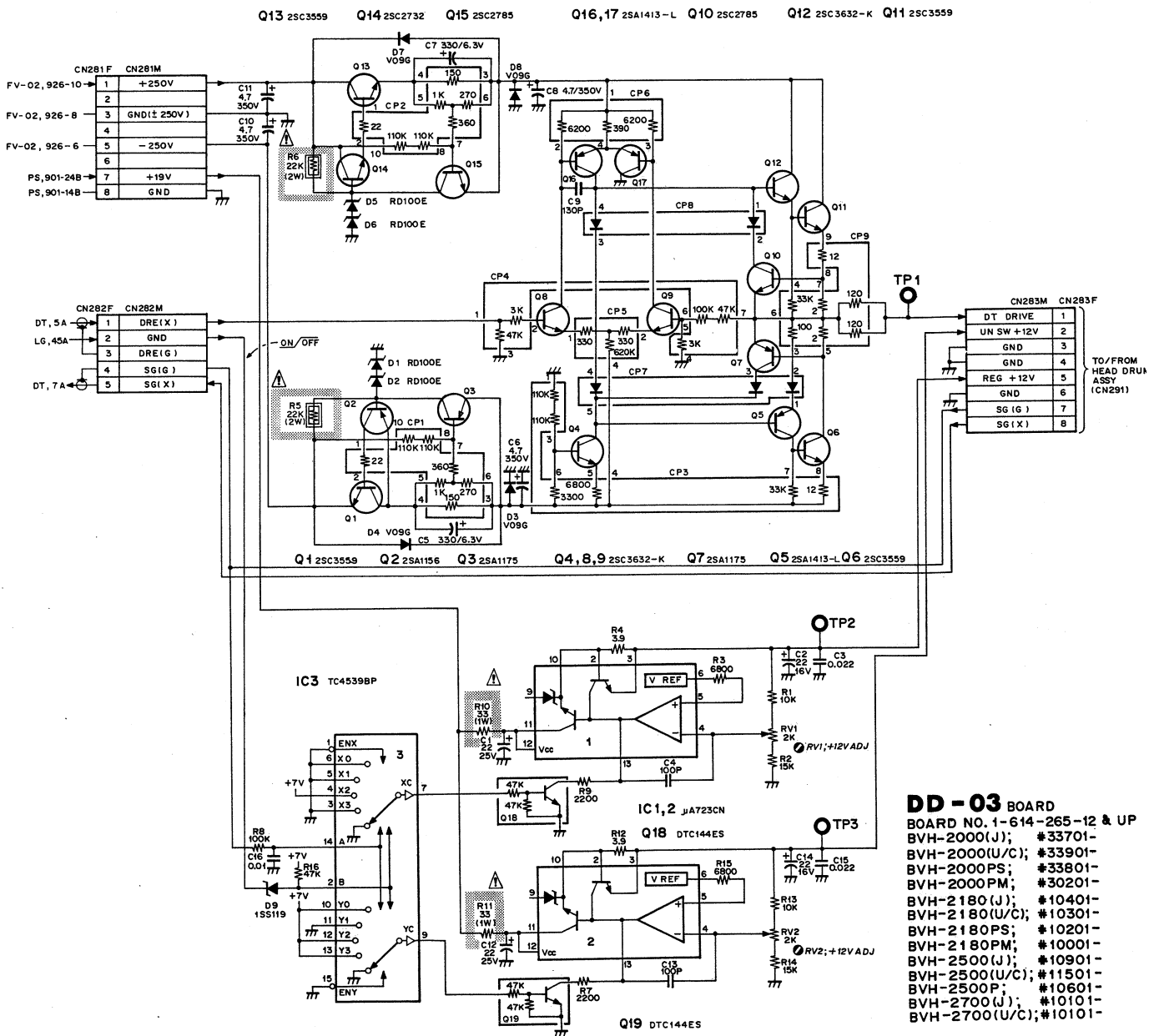
■ 1-614-265-12 SOLDER SIDE

DD-03 (1-614-265-12 & UP)

BVH-2000
(02 MODEL)BVH-2000PS
(02/04 MODEL)BVH-2000PM
BVH-2180/PS/PM
BVH-2500/PCN281M
1B
CN282M
1A
CN283M
1ACP1 3B
CP2 4B
CP3 2A
CP4 3A
CP5 3A
CP6 4A
CP7 3A
CP8 4A
CP9 3AD1 2B
D2 2B
D3 3B
D4 3B
D5 4B
D6 4B
D7 4B
D8 4B
D9 1AIC1 1B
IC2 2B
IC3 3BQ1 2B
Q2 2B
Q3 2B
Q4 2A
Q5 2A
Q6 2A
Q7 3A
Q8 3A
Q9 3A
Q10 3A
Q11 4A
Q12 4A
Q13 4B
Q14 4B
Q15 4B
Q16 4A
Q17 4A
Q18 2A
Q19 1ARV1 1A
RV2 1ATP1 1A
TP2 1A
TP3 1A

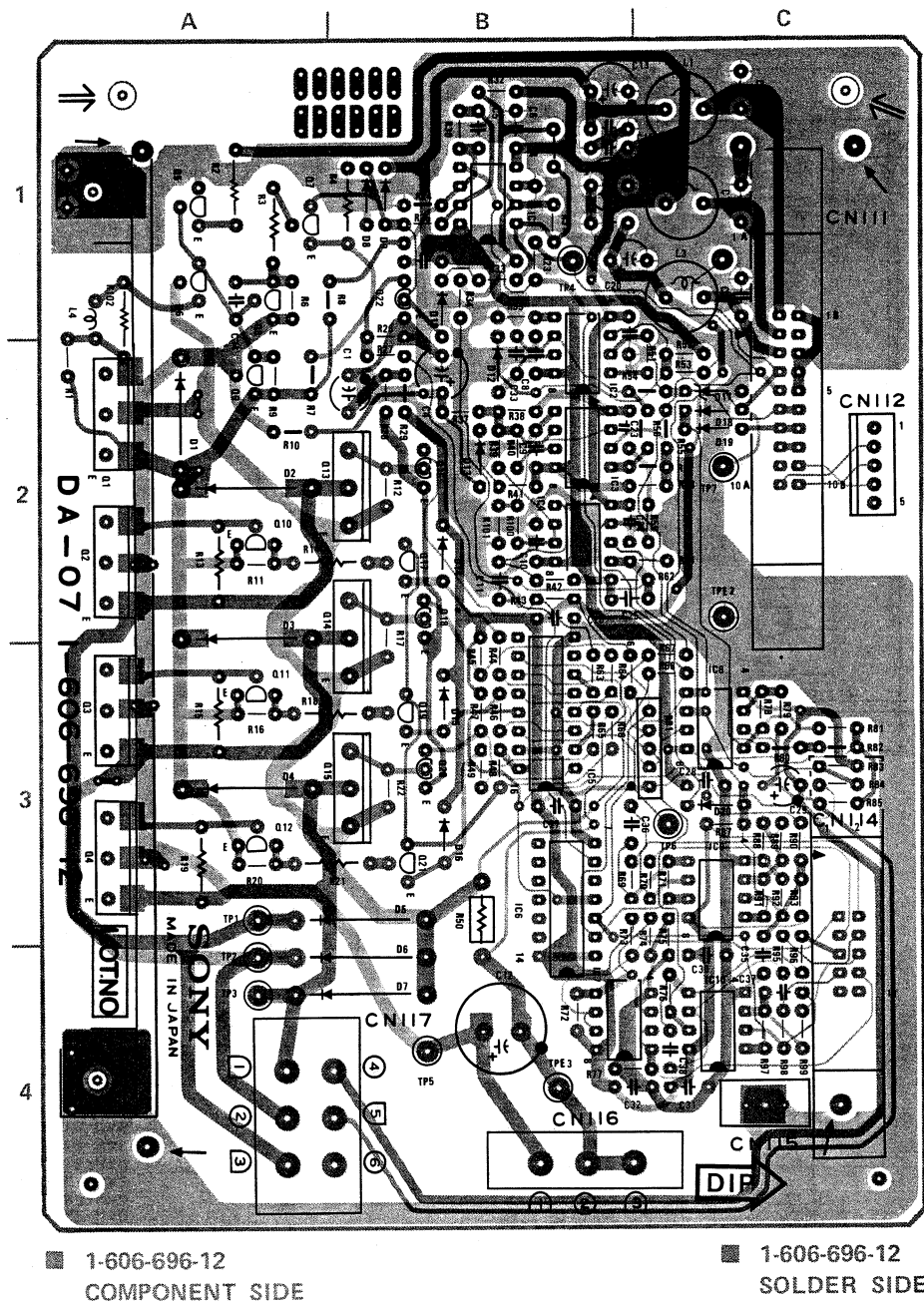
DD-03 BOARD

DT Drive



DA-07 BOARD (1-606-696-12)

Component Side



DA-07 (1-606-696-12 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CN111M	TP4	1B
2C	TP5	4B
CN112M	TP6	3C
2C	TP7	2C

CN114M	TPE2	2C
CN115M	TPE3	4B

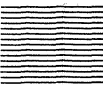
4C		
CN116M		
4B		
CN117M		
4A		

D1	2A
D2	2A
D3	3A
D4	3A
D5	3B
D6	4B
D7	4B
D8	1B
D9	1B
D10	1B
D12	2B
D13	2B
D14	2B
D15	3B
D16	3B
D17	2C
D18	2C
D19	2C
D20	3C

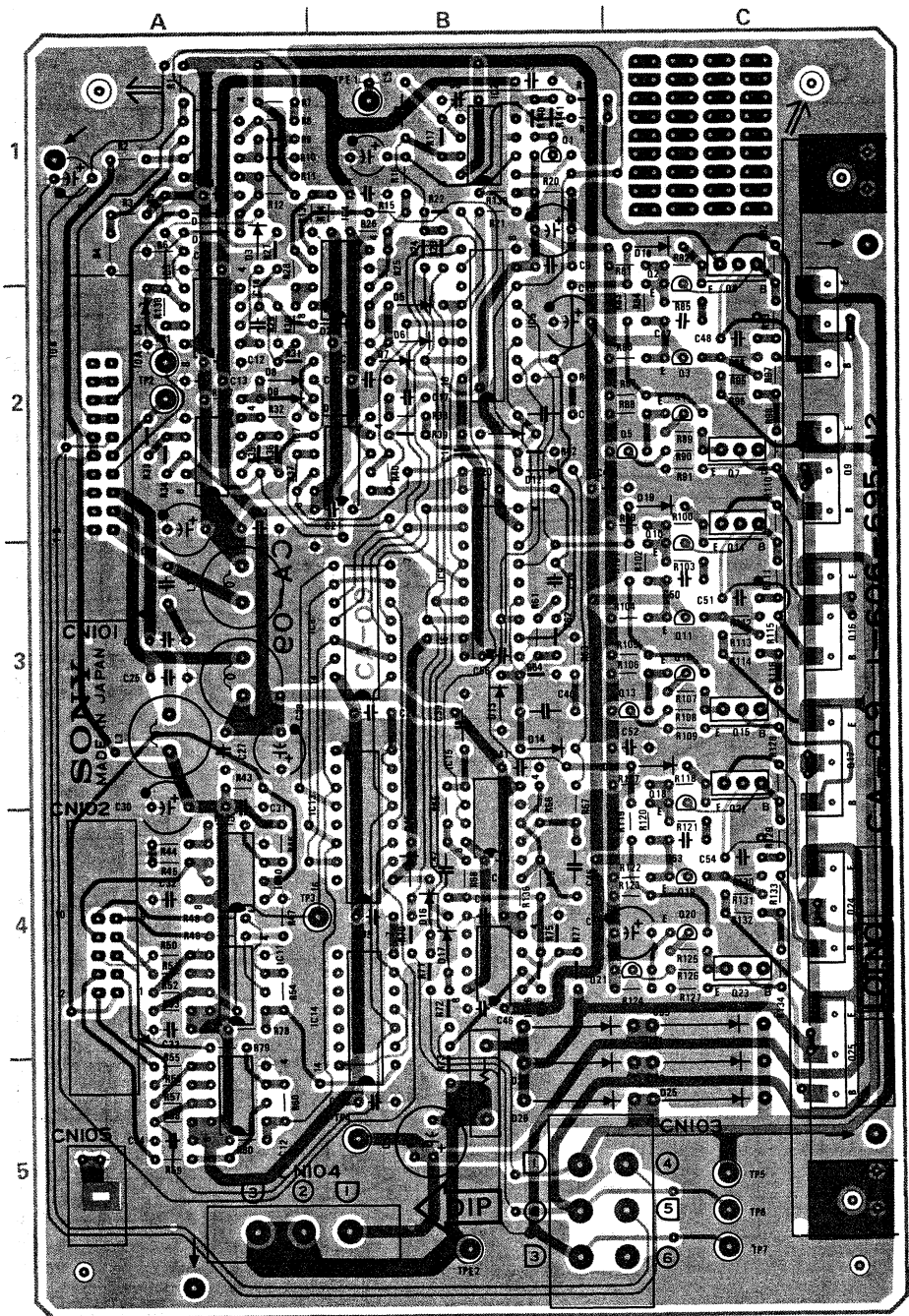
IC1	1B
IC2	2B
IC3	2B
IC4	2B
IC5	3B
IC6	3B
IC7	4B
IC8	3C
IC9	3C
IC10	4C

Q1	2A
Q2	2A
Q3	3A
Q4	3A
Q5	1A
Q6	1A
Q7	1A
Q8	1A
Q9	2A
Q10	2A
Q11	3A
Q12	3A
Q13	2B
Q14	3B
Q15	3B
Q16	2B
Q17	2B
Q18	2B
Q19	3B
Q20	3B
Q21	3B
Q22	1B

RB1 3C



CA-09 BOARD (1-606-695-12)
Component Side



■ 1-606-695-12 COMPONENT SIDE
■ 1-606-695-12 SOLDER SIDE

CA-09 (1-606-695-11 & UP)

BVH-2000/PS/PM	TP1	2A
BVH-2180/PS/PM	TP2	2A
BVH-2500/P	TP3	4A
	TP4	5B
CN101M	TP5	5C
2A	TP6	5C
CN102M	TP7	5C
4A		
CN103M	TPE1	1B
5B	TPE2	5B
CN104M		
5A		
CN105M		
5A		

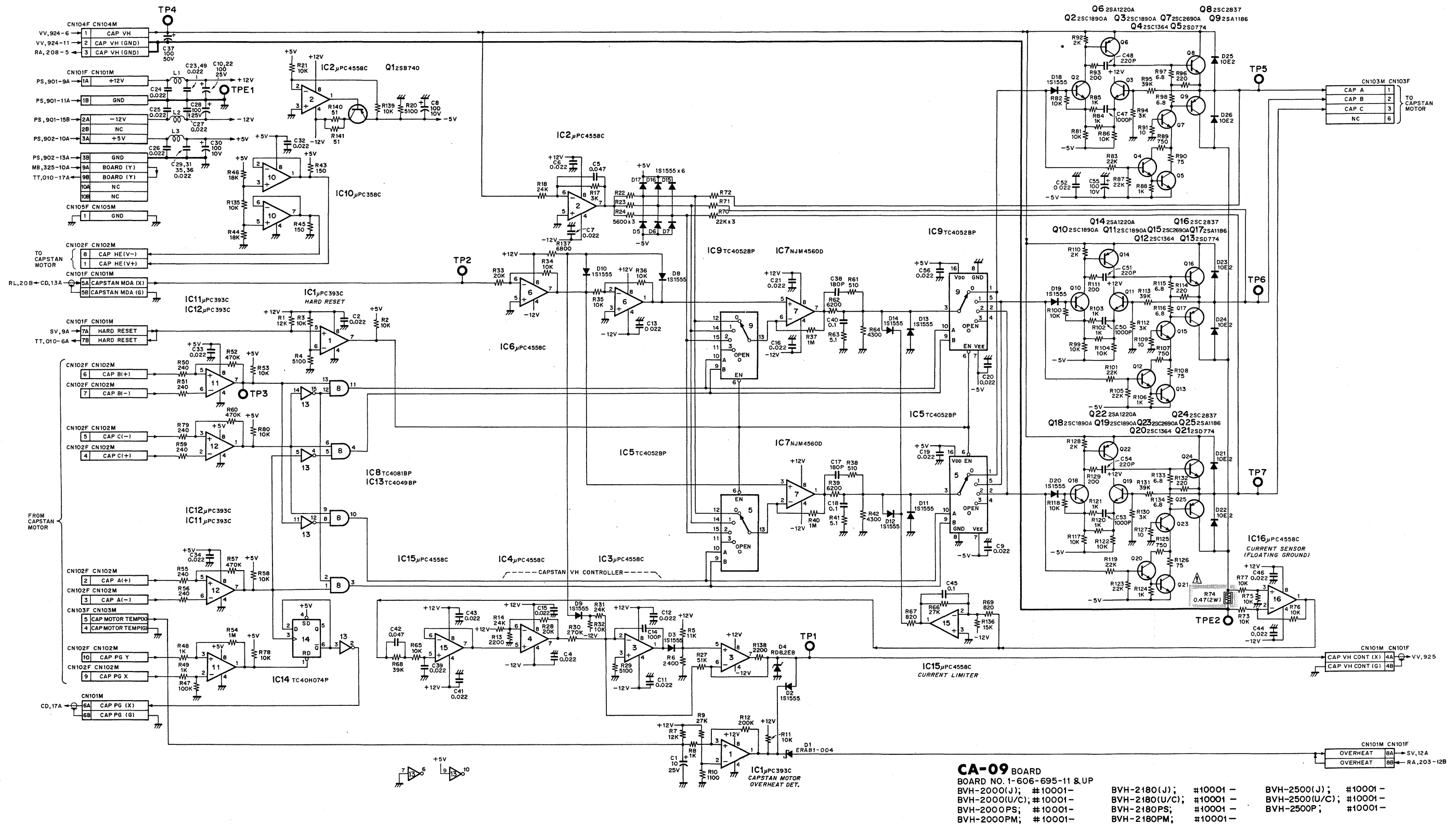
D1	1A
D2	1A
D3	1A
D4	2A
D5	2B
D6	2B
D7	2B
D8	2A
D9	2A
D10	2B
D11	2B
D12	2B
D13	3B
D14	3B
D15	4B
D16	4B
D17	4B
D18	1C
D19	2C
D20	3C
D21	4C
D22	4B
D23	5C
D24	5B
D25	5C
D26	5B

IC1	1A
IC2	1B
IC3	2A
IC4	1B
IC5	2B
IC6	2A
IC7	2A
IC8	3B
IC9	3B
IC10	4A
IC11	4A
IC12	5A
IC13	3B
IC14	4B
IC15	3B
IC16	4B

Q1	1B
Q2	2C
Q3	2C
Q4	2C
Q5	2C
Q6	2C
Q7	2C
Q8	2C
Q9	2C
Q10	3C
Q11	3C
Q12	3C
Q13	3C
Q14	2C
Q15	3C
Q16	3C
Q17	3C
Q18	3C
Q19	4C
Q20	4C
Q21	4C
Q22	3C
Q23	4C
Q24	4C
Q25	4C

CA-09 BOARD

Capstan Motor Driver

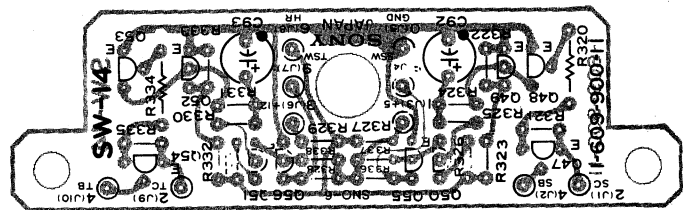


RA-05 BOARD (1-606-694-13, 14)

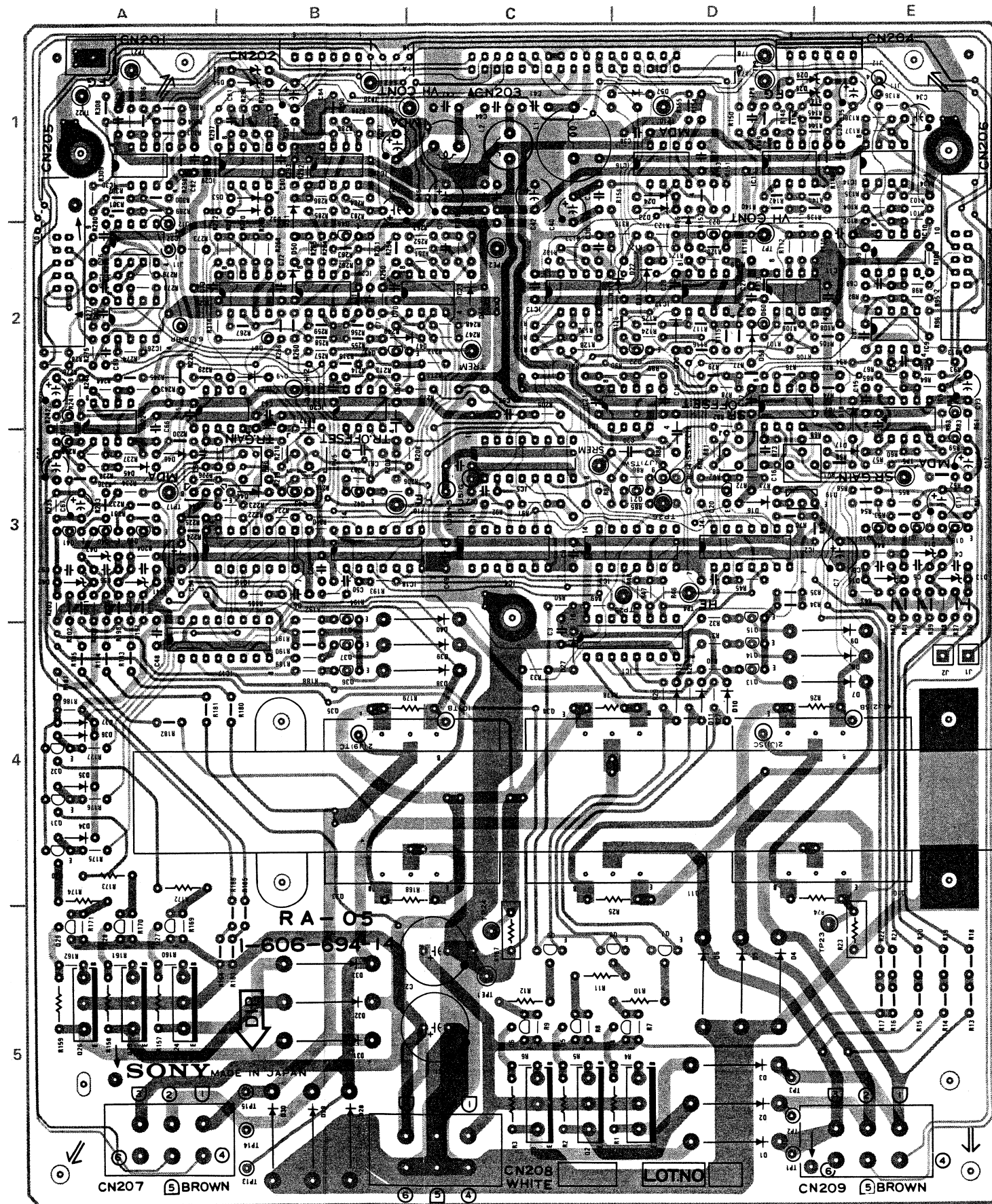
Component Side

SW-14 BOARD (1-609-900-11)

Component Side



1-609-900-11



1-606-694-14 COMPONENT SIDE

1-606-694-14

RA-05 (1-606-694-13 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CN201M	Q1	50
1A	Q2	5C
CN202M	Q3	5C
1B	Q4	50
CN203M	Q5	5C
1C	Q6	5C
CN204M	Q7	50
1E	Q8	5C
CN205M	Q9	5C
2A	Q10	4E
CN206M	Q11	4D
2E	Q12	4E
CN207M	Q13	4D
3A	Q14	4D
CN208M	Q15	3D
5C	Q16	3E
CN209M	Q17	3E
5E	Q18	3E
	Q19	3D
	Q20	3D

D1	50	
D2	50	
D3	50	
D4	50	
D5	50	
D6	50	
D7	4E	
D8	4E	
D9	4E	
D10	4D	
D11	4D	
D12	4D	
D13	3E	
D14	3E	
D15	3E	
D16	3D	
D17	3E	
D18	2E	
D20	2D	
D21	2D	
D22	2D	
D23	1D	
D24	1D	
D25	1D	
D26	1D	
D27	4C	
D28	5B	
D29	5B	

(SW-14 BOARD)

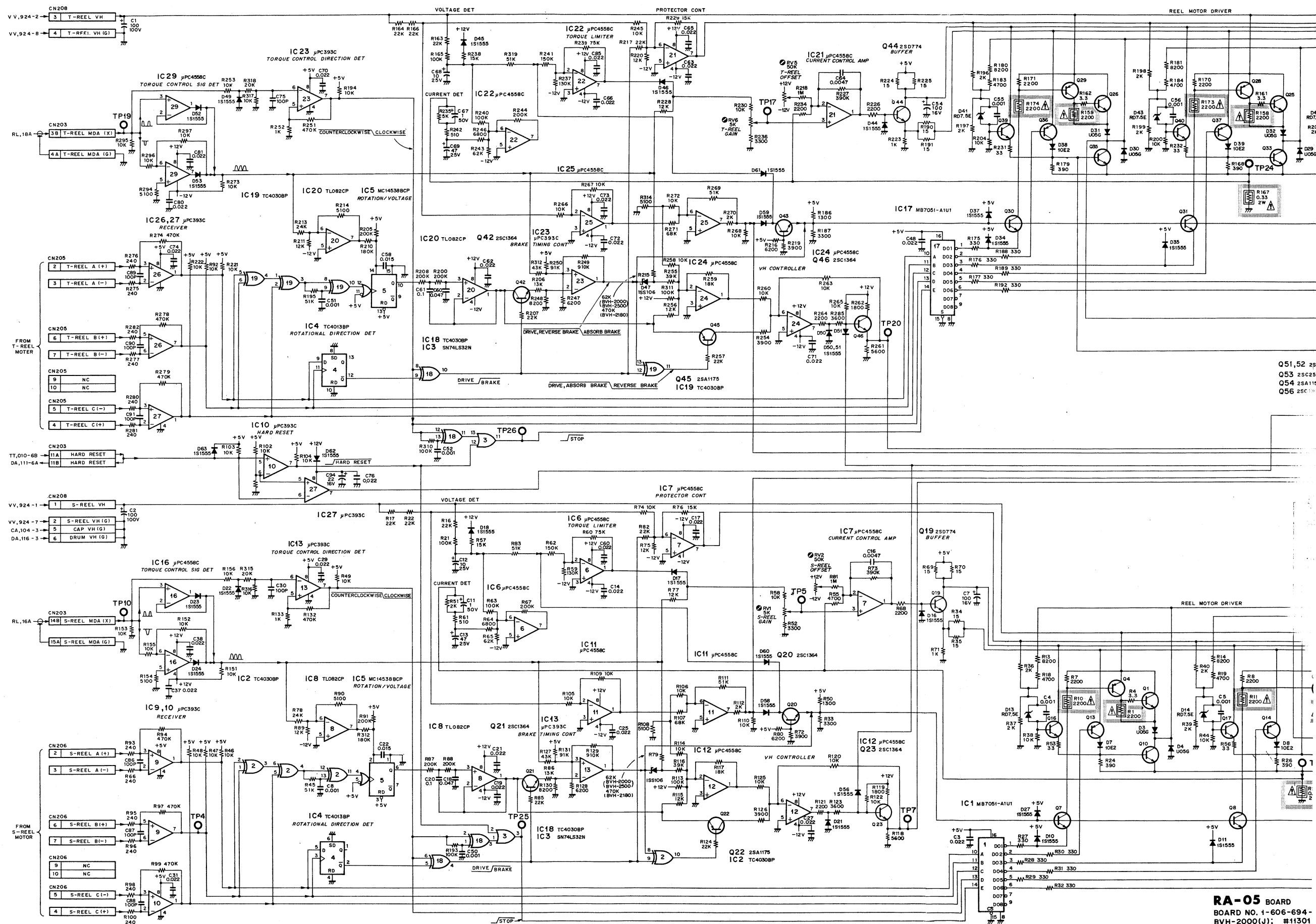
D30	5B	
D31	5B	
D32	5B	
D33	5B	
D34	4A	
D35	4A	
D36	4A	
D37	4A	
D38	4C	
D39	4C	
D40	3C	
D41	3A	
D42	3A	
D43	3A	
D44	3B	
D45	3A	
D46	3A	

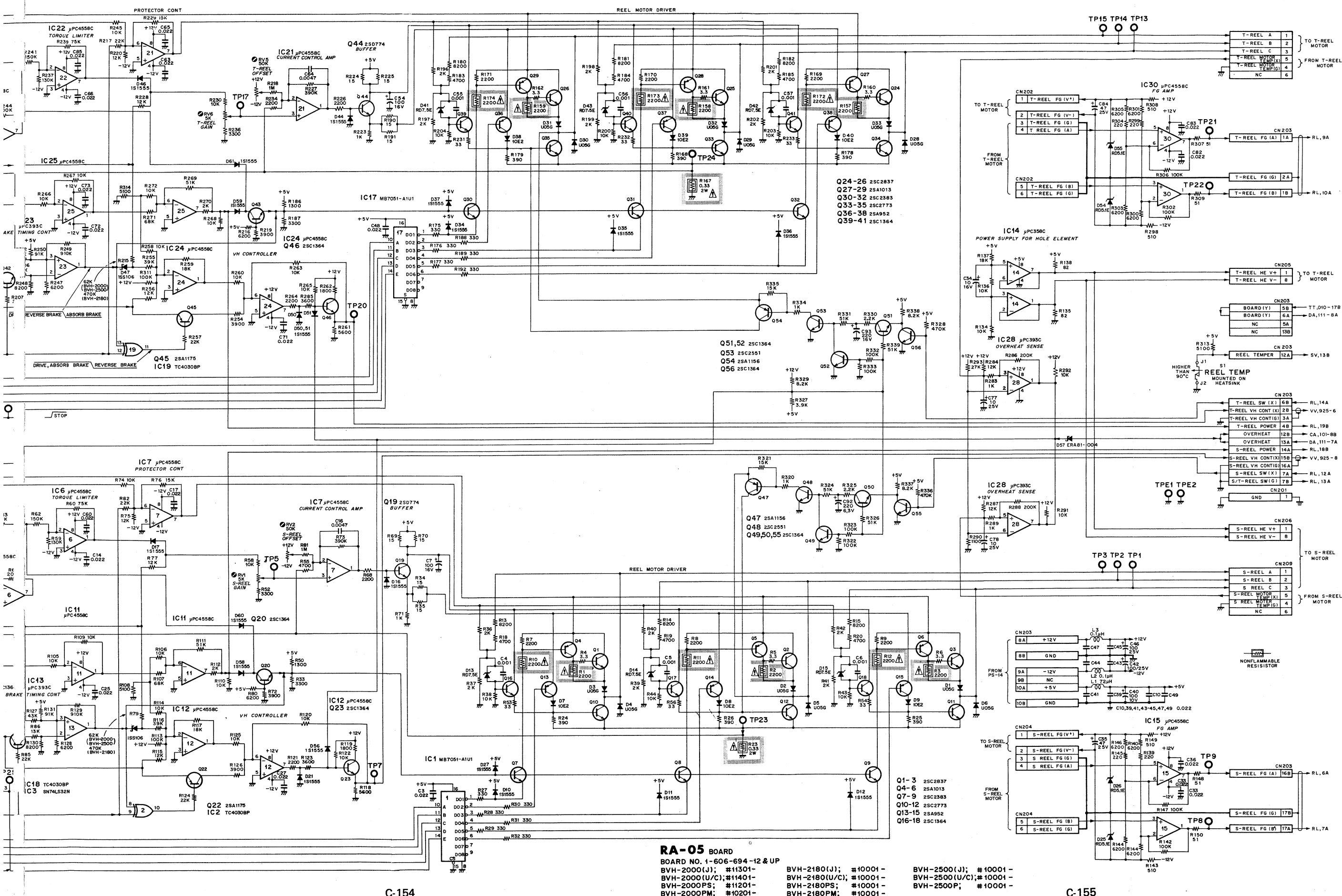
D47	2B	
D49	2C	
D50	2B	
D51	1B	
D52	1B	
D53	1B	
D54	1B	
D55	1B	
D56	2D	
D57	1D	
D58	2D	
D59	2B	
D60	2D	
D61	2B	
D62	1A	
D63	1E	

IC1	4D	
IC2	3D	
IC3	3D	
IC4	3C	
IC5	3C	
IC6	3E	
IC7	2D	
IC8	2D	
IC9	2E	
IC10	2E	
IC11	2D	
IC12	2D	
IC13	2C	
IC14	1E	
IC15	1D	
IC16	1D	
IC17	4B	
IC18	3B	
IC19	3B	
IC20	2B	
IC21	2B	
IC22	2A	
IC23	2C	
IC24	2B	
IC25	2B	
IC26	2A	
IC27	2A	
IC28	1B	
IC29	1B	
IC30	1A	

TP1	50	
TP2	50	
TP3	50	
TP4	3D	
TP5	3E	
TP7	2D	
TP8	1D	
TP9	1D	
TP10	1D	
TP13	5B	
TP14	5B	
TP15	5B	
TP16	5B	
TP17	3A	
TP19	1B	
TP20	1B	
TP21	1A	
TP22	1A	
TP23	5E	
TP24	5C	
TP25	3D	
TP26	3D	

TPE1	5C	
TPE2	2C	

RA-05 BOARD
Reel Motor Driver

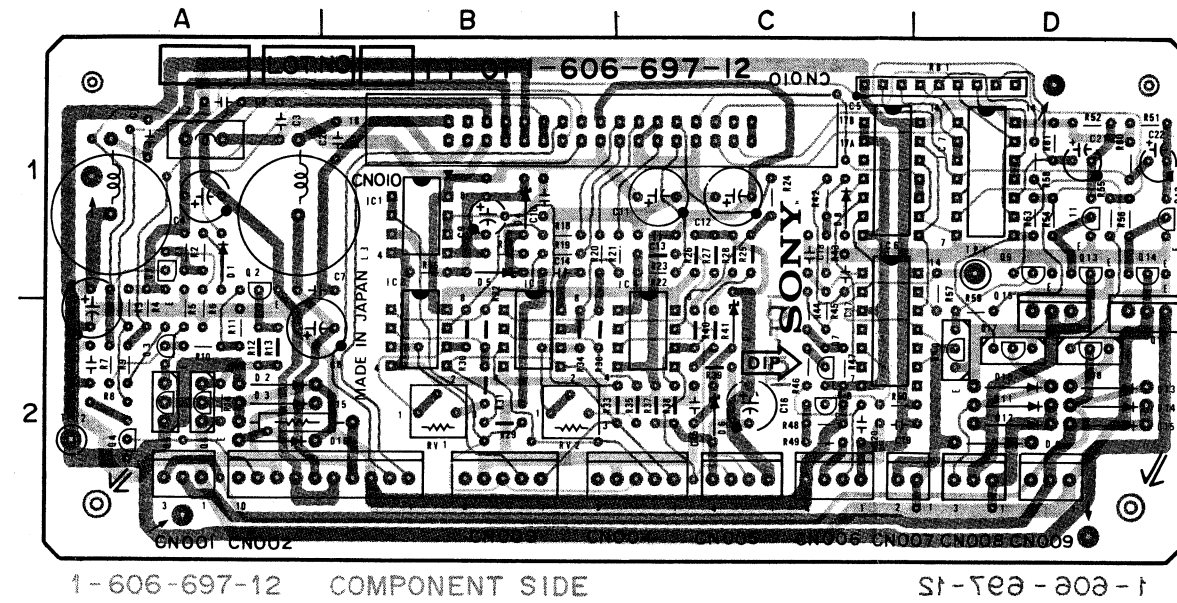


C-154

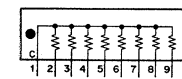
C-155



TT-01 BOARD (1-606-697-12)
Component Side



RB1

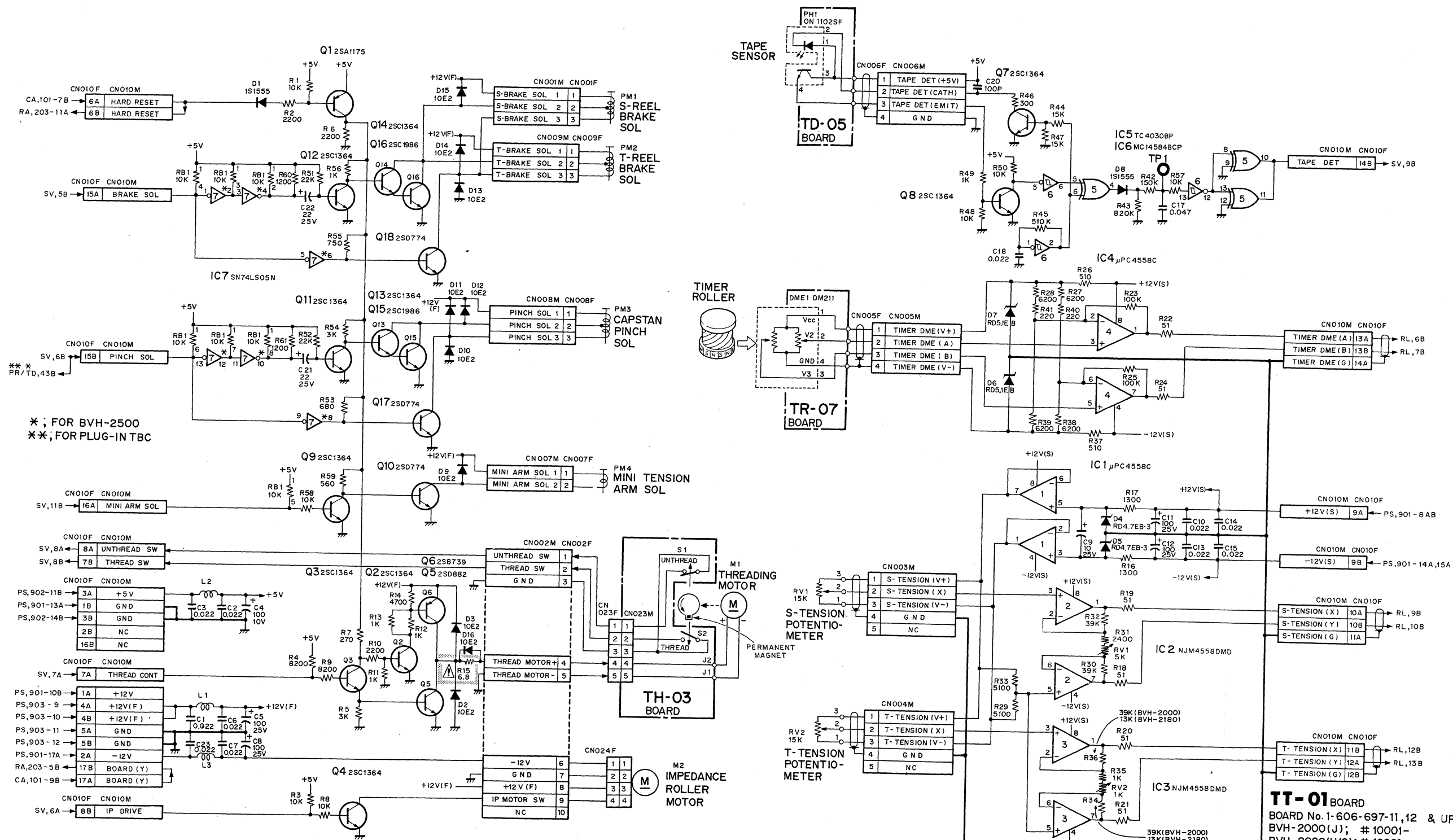


TT-01 (1-606-697-12 & UP)		
BVH-2000/PS/PM	IC1	1B
BVH-2180/PS/PM	IC2	2B
BVH-2500/P	IC3	2B
	IC4	2C
CN001M	IC5	1C
CN002M	IC6	2C
	IC7	1D
CN003M	Q1	1A
	Q2	1A
CN004M	Q3	2A
	Q4	2A
CN005M	Q5	2A
	Q6	2A
CN006M	Q7	2C
	Q8	2C
CN007M	Q9	1D
	Q10	2D
CN008M	Q11	1D
	Q12	1D
CN009M	Q13	1D
	Q14	1D
CN010M	Q15	2D
	Q16	2D
	Q17	2D
	Q18	2D
D1	1A	
D2	2A	
D3	2A	RB1 1D
D4	1B	
D5	1B	RV1 2B
D6	2C	RV2 2B
D7	2C	
D8	1C	TP1 1D
D9	2D	
D10	2D	TPE2 2A
D11	2D	
D12	2D	
D13	2D	
D14	2D	
D15	2D	
D16	2A	

BVH-2000/PS/PM C-156
BVH-2180/PS/PM C-157
BVH-2500/P C-158

TT-01 BOARD

TTP AUX (Solenoid, Motor Driver etc.)



C-159

C-160

TT-01 BOARD

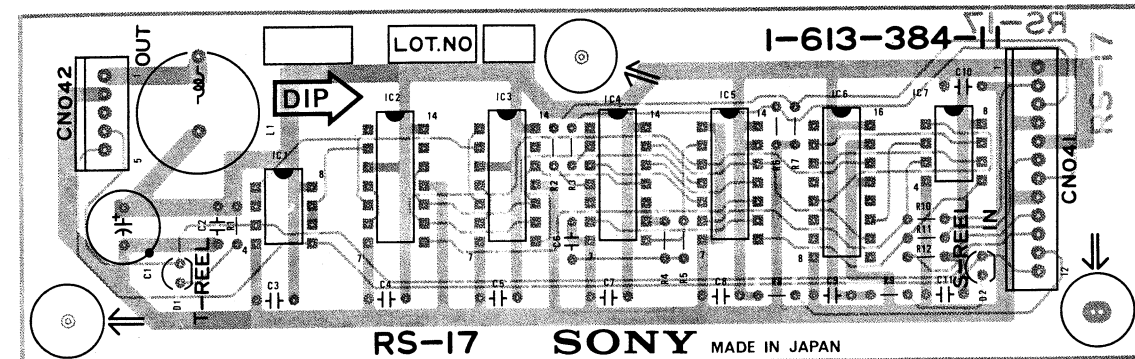
BOARD No. 1-606-697-11,12 & UP
 BVH-2000(J); # 10001-
 BVH-2000(U/C); # 10001-
 BVH-2000PS; # 10001-
 BVH-2000PM; # 10001-
 BVH-2180(J); # 10001-
 BVH-2180(U/C); # 10001-
 BVH-2180PS; # 10001-
 BVH-2180PM; # 10001-

RS-1

RS

RS-17 BOARD (1-613-384-11)

Component Side

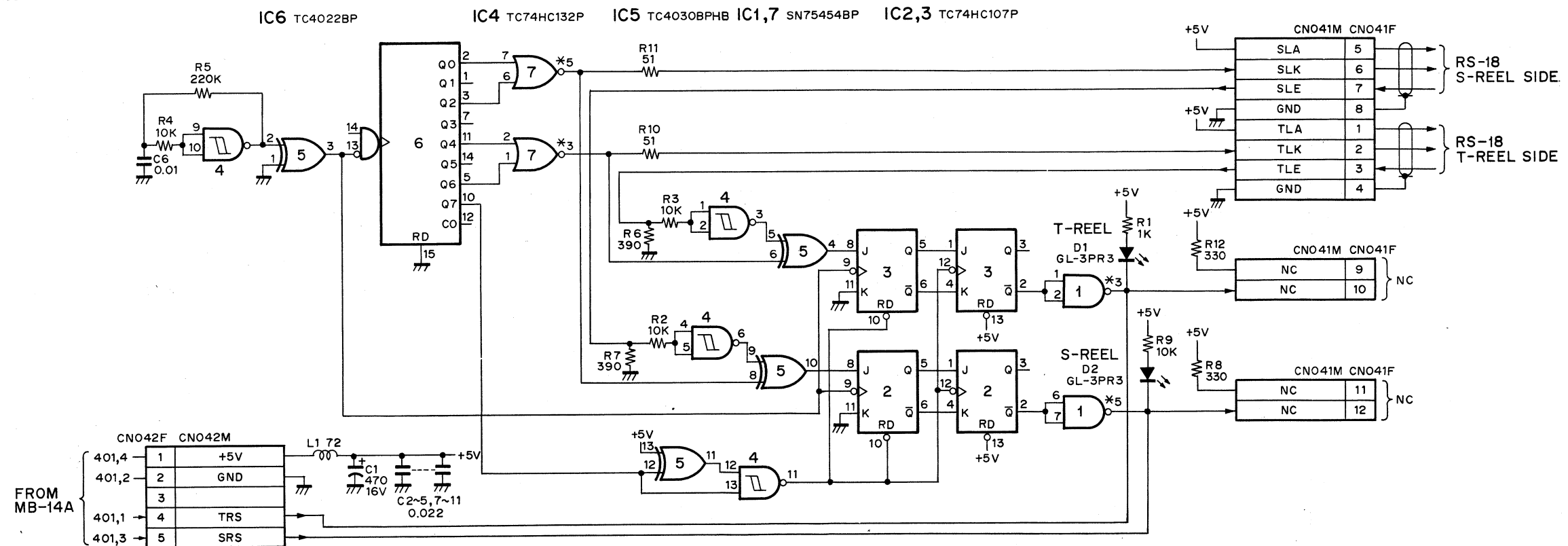


■ 1-613-384-11 COMPONENT SIDE

■ 1-613-384-11 SOLDER SIDE

RS-17 BOARD

Reel Size Sensor

**RS-17 BOARD**

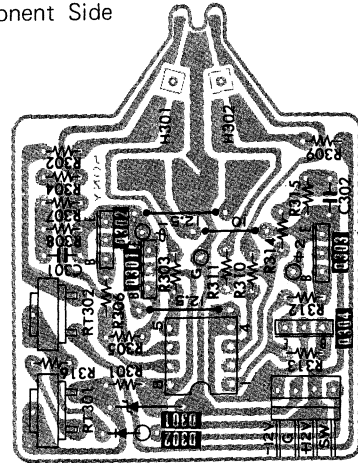
BOARD NO. 1-613-384-11 & UP
 BVH-2180(J); #10001-
 BVH-2180(U/C); #10001-
 BVH-2180PS; #10001-
 BVH-2180PM; #10001-

RS-18 BOARD (1-613-389-11)

Solder Side
(FOR BVH-2180)1-613-389-11
SOLDER SIDE

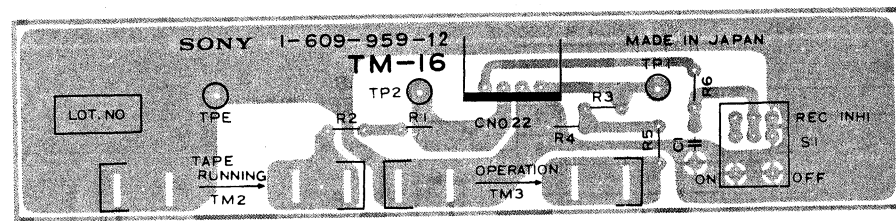
MOTOR BOARD (1-602-615-11)

Component Side

1-602-615-11
SOLDER SIDE

TM-16 BOARD (1-609-959-12)

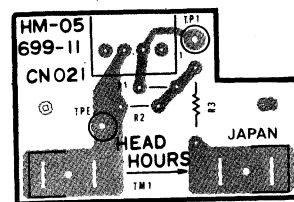
Component Side



1-609-959-12 SOLDER SIDE

HM-05 BOARD (1-606-699-11)

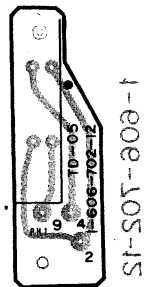
Component Side



1-606-699-11 SOLDER SIDE

TD-05 BOARD (1-606-702-12)

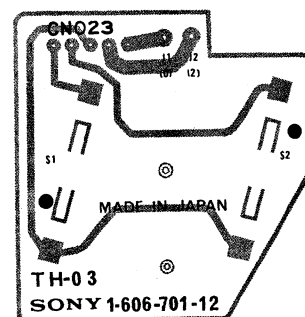
Component Side



1-606-702-12 SOLDER SIDE

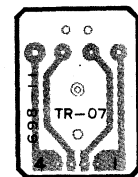
TH-03 BOARD (1-606-701-12)

Solder Side

1-606-701-12
SOLDER SIDE

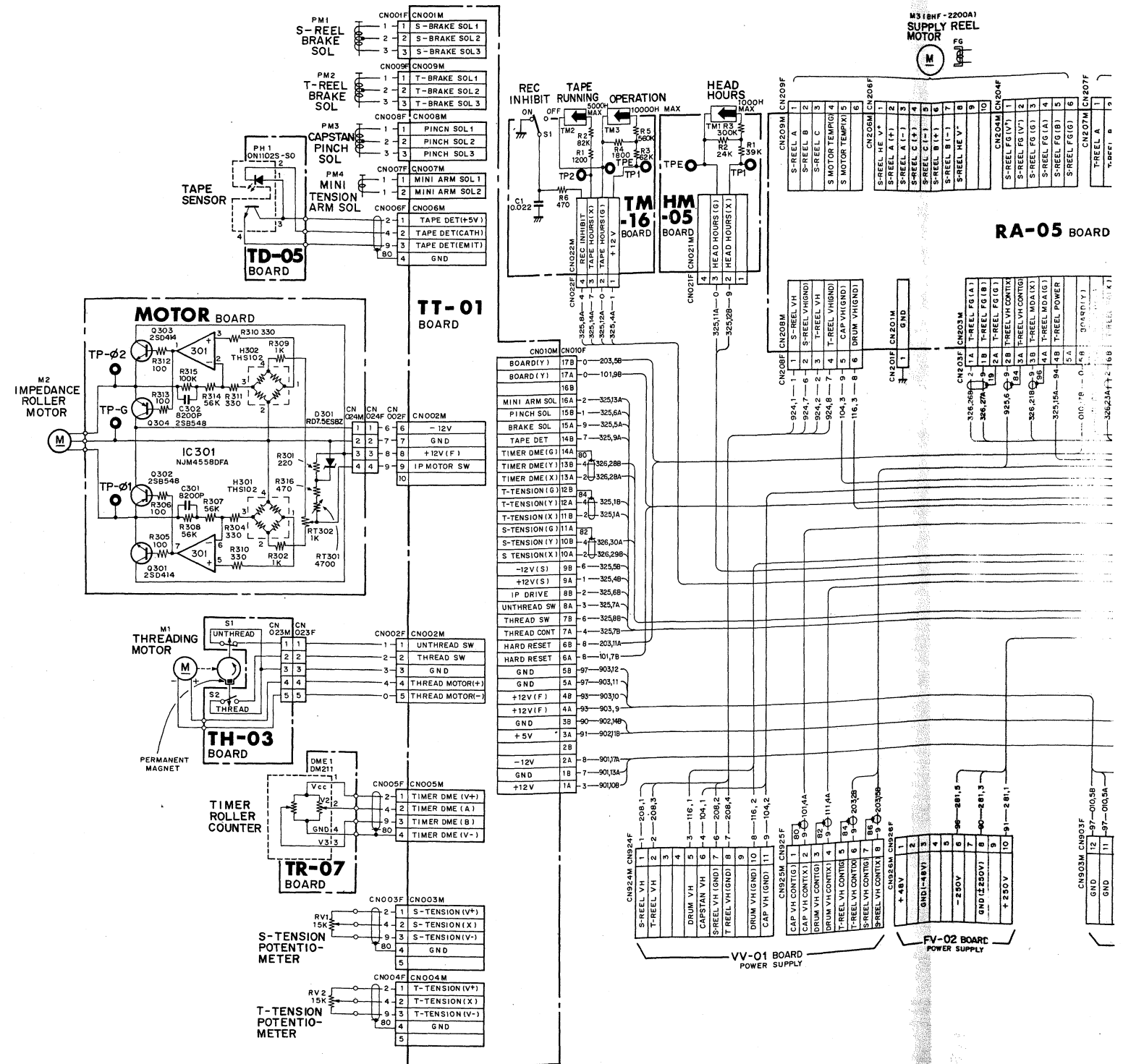
TR-07 BOARD (1-606-698-11)

Solder Side

1-606-698-11
SOLDER SIDE

FRAME WIRING (1/2); TAPE TRANSPORT; FOR 02/04 MODEL

- HM-05 BOARD: Head Hours Meter
 TM-16 BOARD: Tape Running/Operation Hours Meter
 & REC Inhibit Switch
 TD-05 BOARD: Tape Detector
 TH-03 BOARD: Threading Motor
 TR-07 BOARD: Timer Roller Sensor
 MOTOR BOARD: Impedance Roller Motor
 RS-18 BOARD: Reel Size Sensor

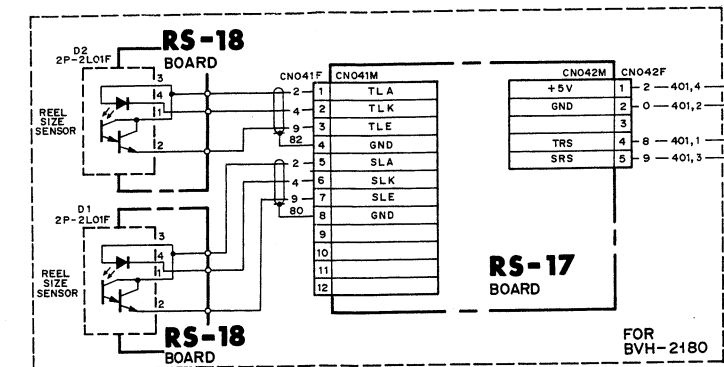




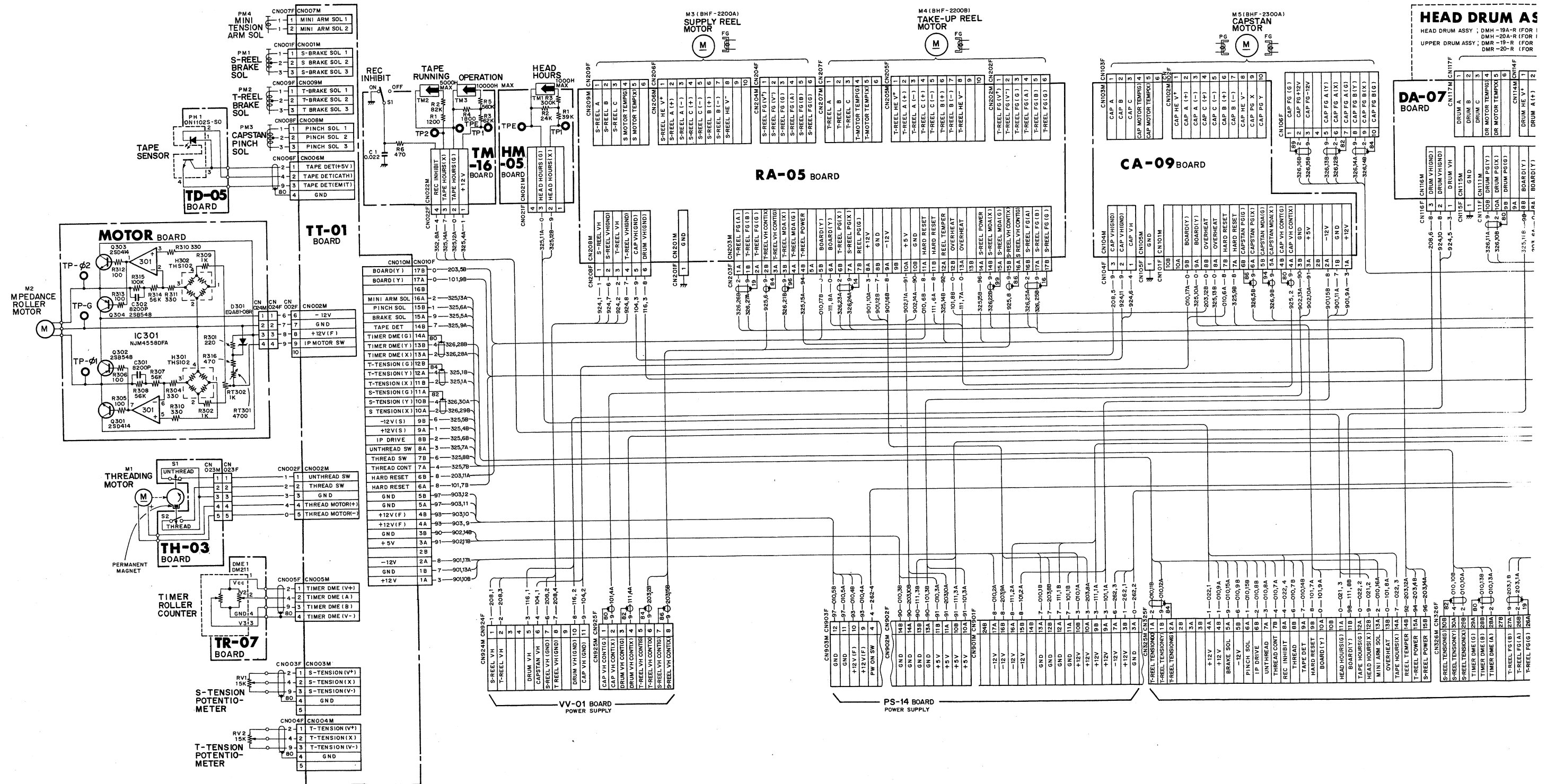
C-166

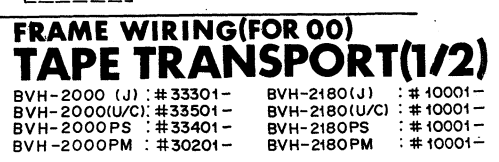
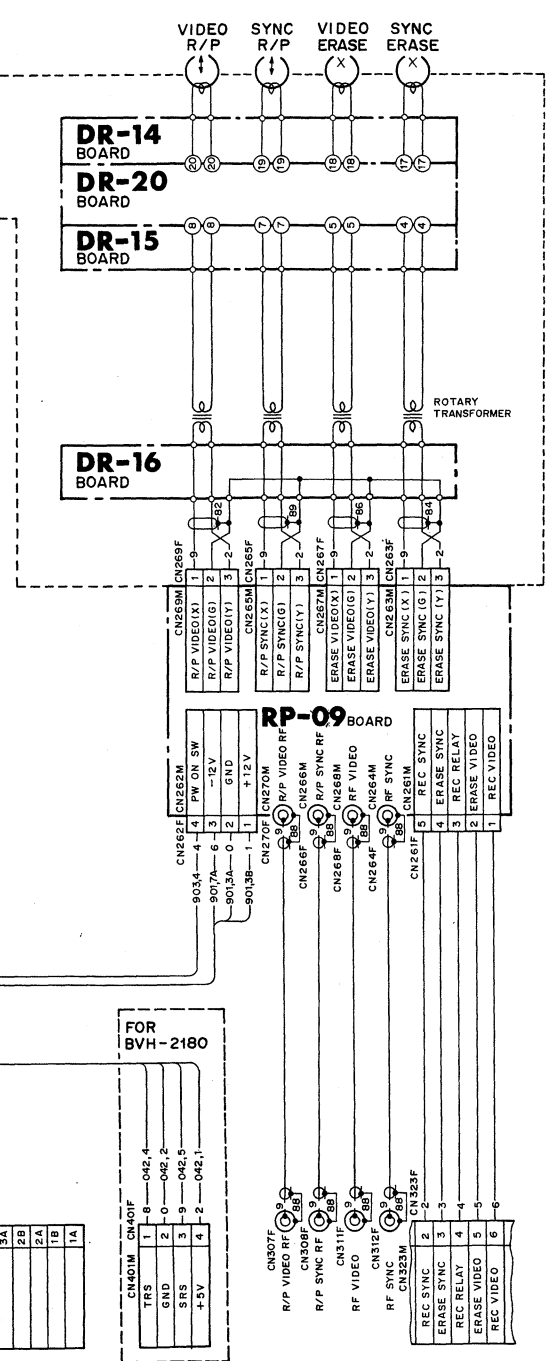
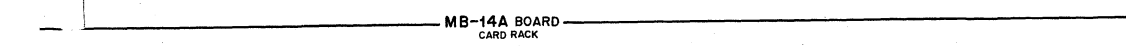
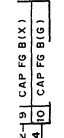
FRAME WIRING (1/2); TAPE TRANSPORT; FOR 00 MODEL

HM-05 BOARD: Head Hours Meter
 TM-16 BOARD: Tape Running/Operation Hours Meter
 & REC Inhibit Switch
 TD-05 BOARD: Tape Detector
 TH-03 BOARD: Threading Motor
 TR-07 BOARD: Timer Roller Sensor
 MOTOR BOARD: Impedance Roller Motor
 RS-18 BOARD: Reel Size Sensor



FOR BVH-2180



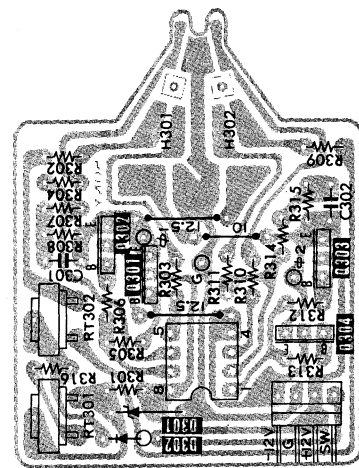


RS-18 BOARD (1-613-389-11)

Solder Side
(FOR BVH-2180)1-613-389-11
SOLDER SIDE

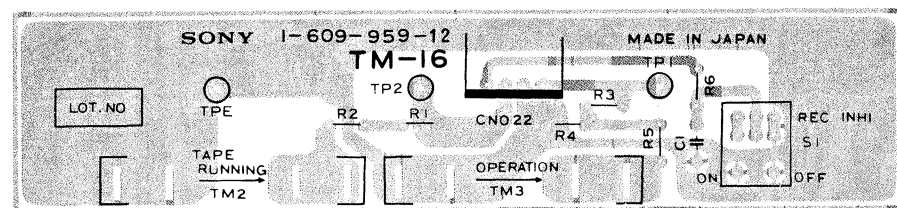
MOTOR BOARD (1-602-615-11)

Component Side

1-602-615-11
SOLDER SIDE

TM-16 BOARD (1-609-959-12)

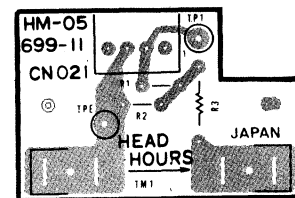
Component Side



1-609-959-12 SOLDER SIDE

HM-05 BOARD (1-606-699-11)

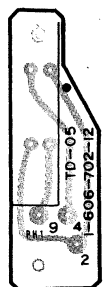
Component Side



1-606-699-11 SOLDER SIDE

TD-05 BOARD (1-606-702-12)

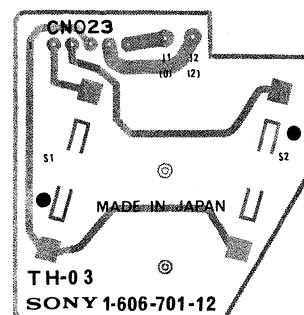
Component Side



1-606-702-12 SOLDER SIDE

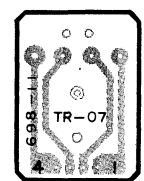
TH-03 BOARD (1-606-701-12)

Solder Side

1-606-701-12
SOLDER SIDE

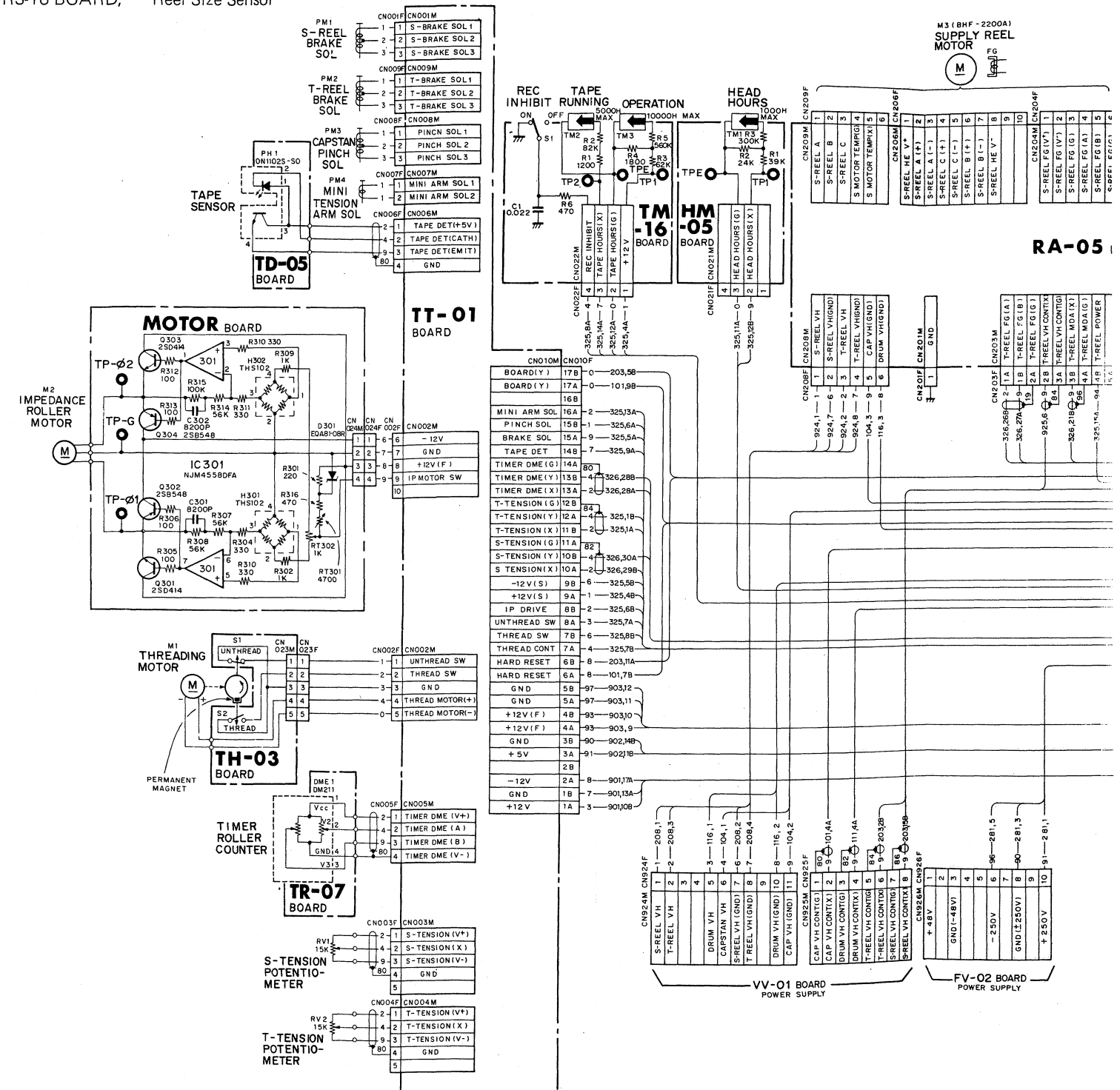
TR-07 BOARD (1-606-698-11)

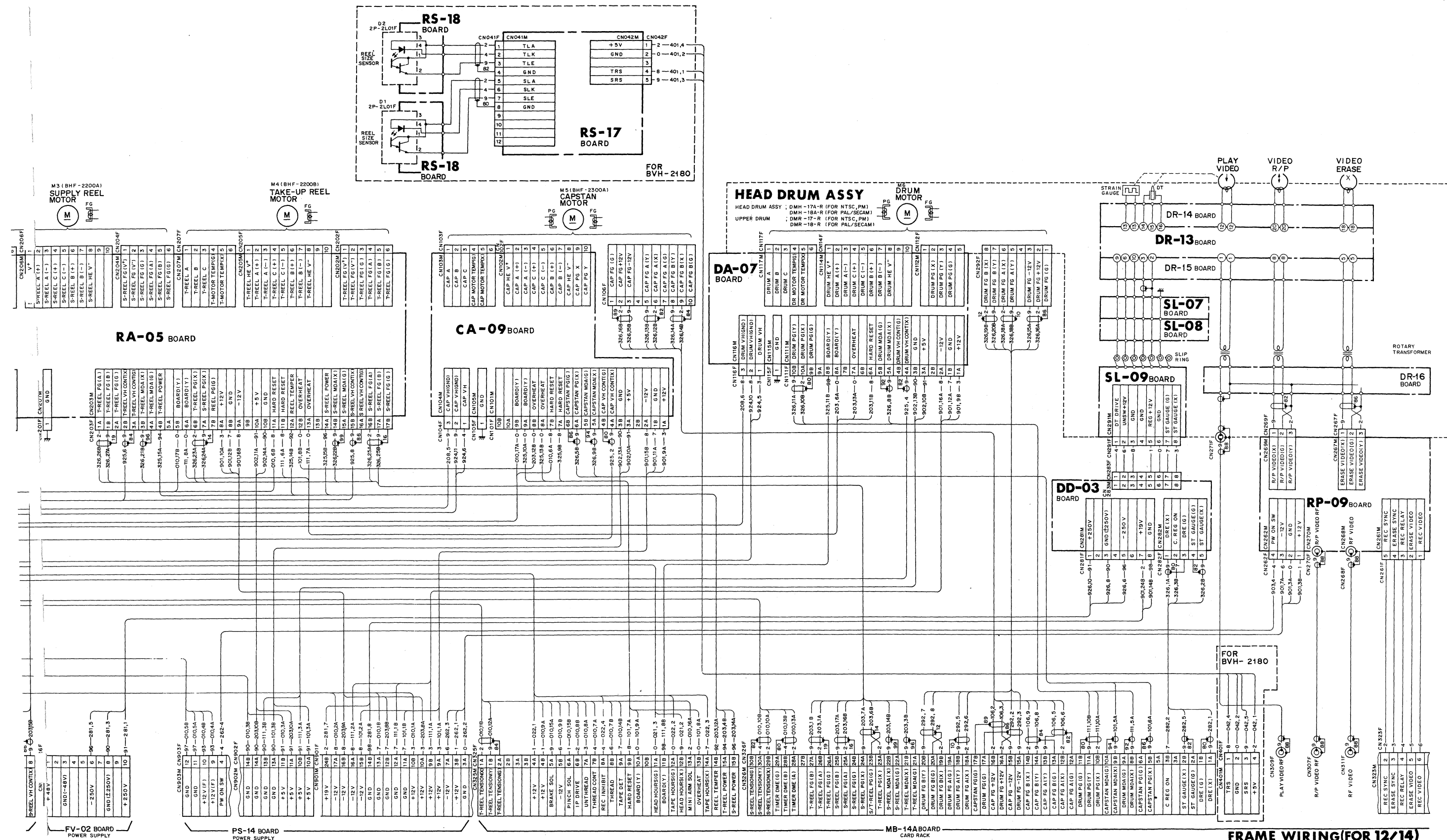
Solder Side

1-606-698-11
SOLDER SIDE

FRAME WIRING (1/2); TAPE TRANSPORT; FOR 12/14 MODEL

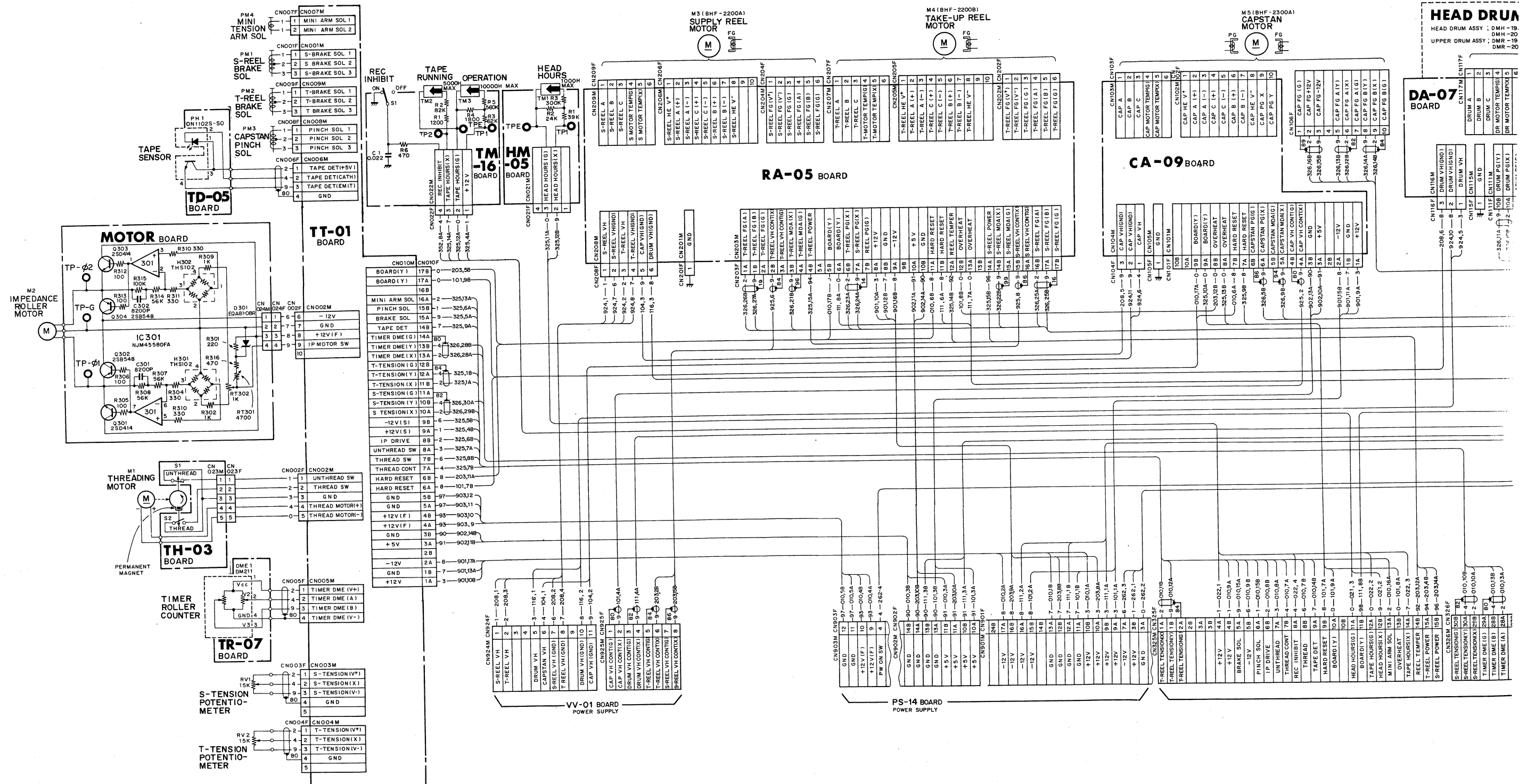
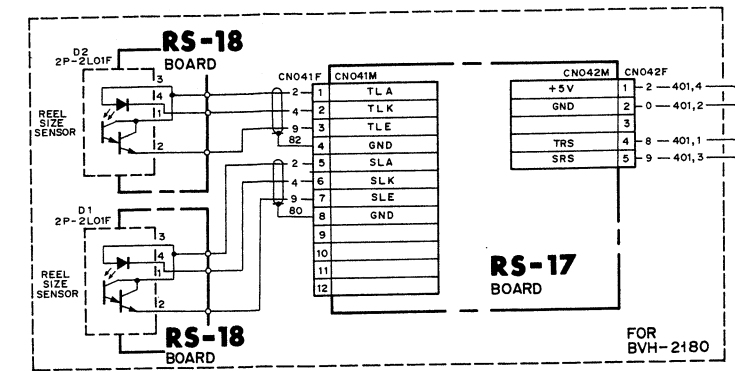
- HM-05 BOARD: Head Hours Meter
 TM-16 BOARD: Tape Running/Operation Hours Meter & REC Inhibit Switch
 TD-05 BOARD: Tape Detector
 TH-03 BOARD: Threading Motor
 TR-07 BOARD: Timer Roller Sensor
 MOTOR BOARD: Impedance Roller Motor
 RS-17 BOARD: Reel Size Sensor
 RS-18 BOARD: Reel Size Sensor



FRAME WIRING (FOR 12/14)
TAPE TRANSPORT (1/2)BVH-2000(U/C); #34501-
BVH-2000PS; #34301-

FRAME WIRING (1/2); TAPE TRANSPORT; FOR 10 MODEL

HM-05 BOARD:	Head Hours Meter
TM-16 BOARD:	Tape Running/Operation Hours Meter & REC Inhibit Switch
TD-05 BOARD:	Tape Detector
TH-03 BOARD:	Threading Motor
TR-07 BOARD:	Timer Roller Sensor
MOTOR BOARD:	Impedance Roller Motor



1 (B) 2200A) IPPLY REEL MOTOR

M4 (BHF-2200B) TAKE-UP REEL MOTOR

M5 (BHF-2300A) CAPSTAN MOTOR

RA-05 BOARD

CA-09 BOARD

HEAD DRUM ASSY

DA-07 BOARD

DR-14 BOARD

DR-20 BOARD

DR-15 BOARD

DR-16 BOARD

RP-09 BOARD

PS-14 BOARD POWER SUPPLY

MB-14A BOARD CARD RACK

FRAME WIRING (FOR 10) TAPE TRANSPORT (1/2)

BVH-2000(U/C); # 34501-
BVH-2000PS; # 34301-

FRAME WIRING (2/2); TAPE TRANSPORT; FOR 00/10/02/12 MODEL

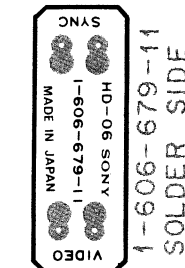
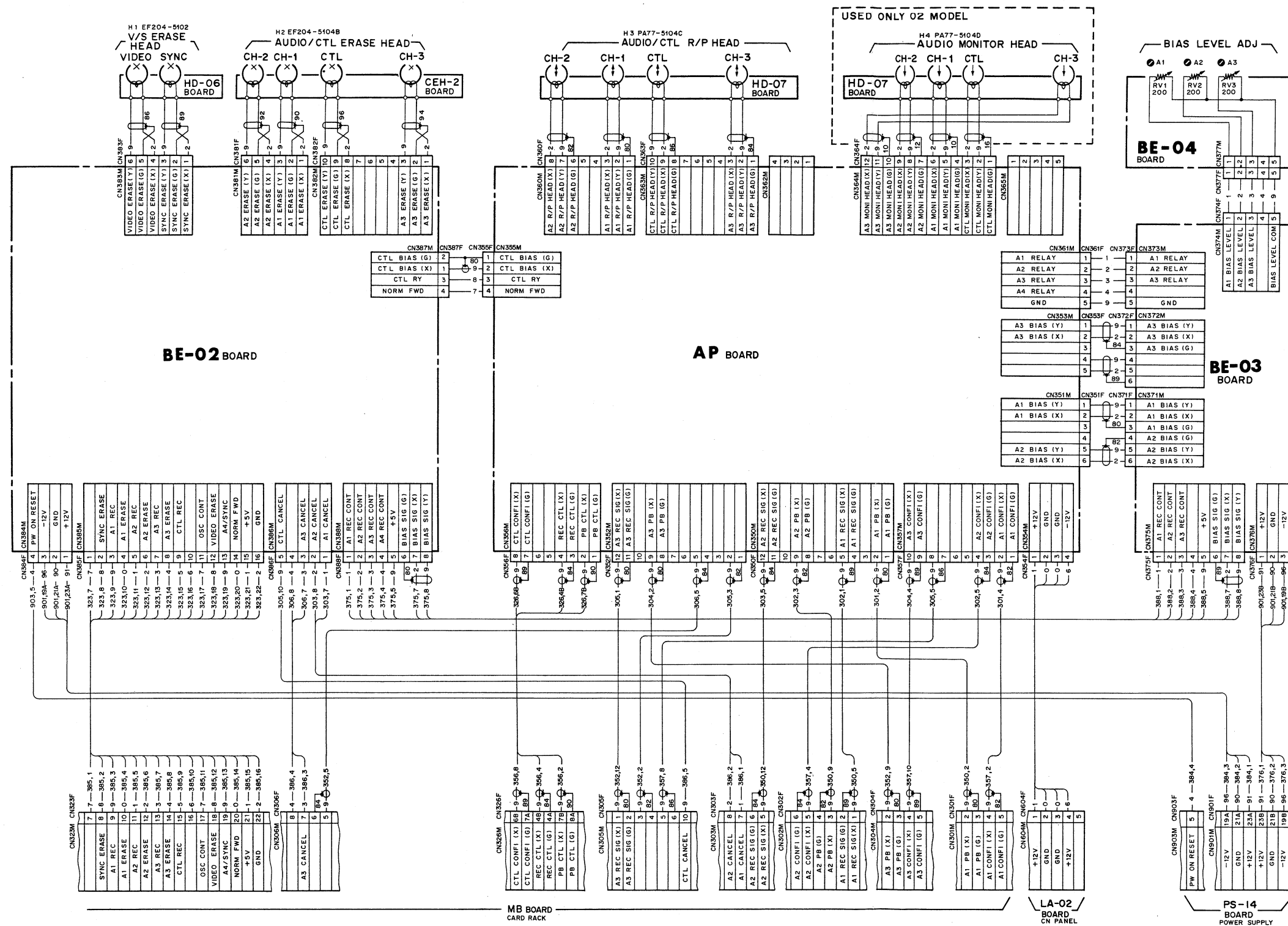
HD-06 BOARD: Video/Sync Erase Head

CEH-2 BOARD: Audio/CTL Erase Head

HD-07 BOARD: Audio/CTL R/P, Monitor Head

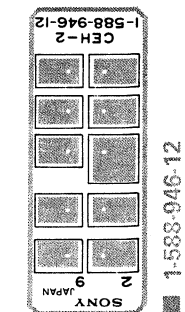
HD-06 BOARD (1-606-679-11)

Solder Side



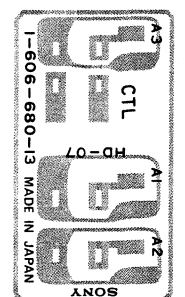
CEH-2 BOARD (1-588-946-12)

Solder Side



HD-07 BOARD (1-606-680-13)

Solder Side

FRAME WIRING FOR BVH-2000/2180/PS/PM 00/10/02/12
TAPE TRANSPORT(2/2)

BVH-2000(J); #10001-
BVH-2000(U/C); #10001-
BVH-2000 PS; #10001-
BVH-2000 PM; #10001-

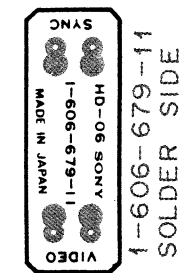
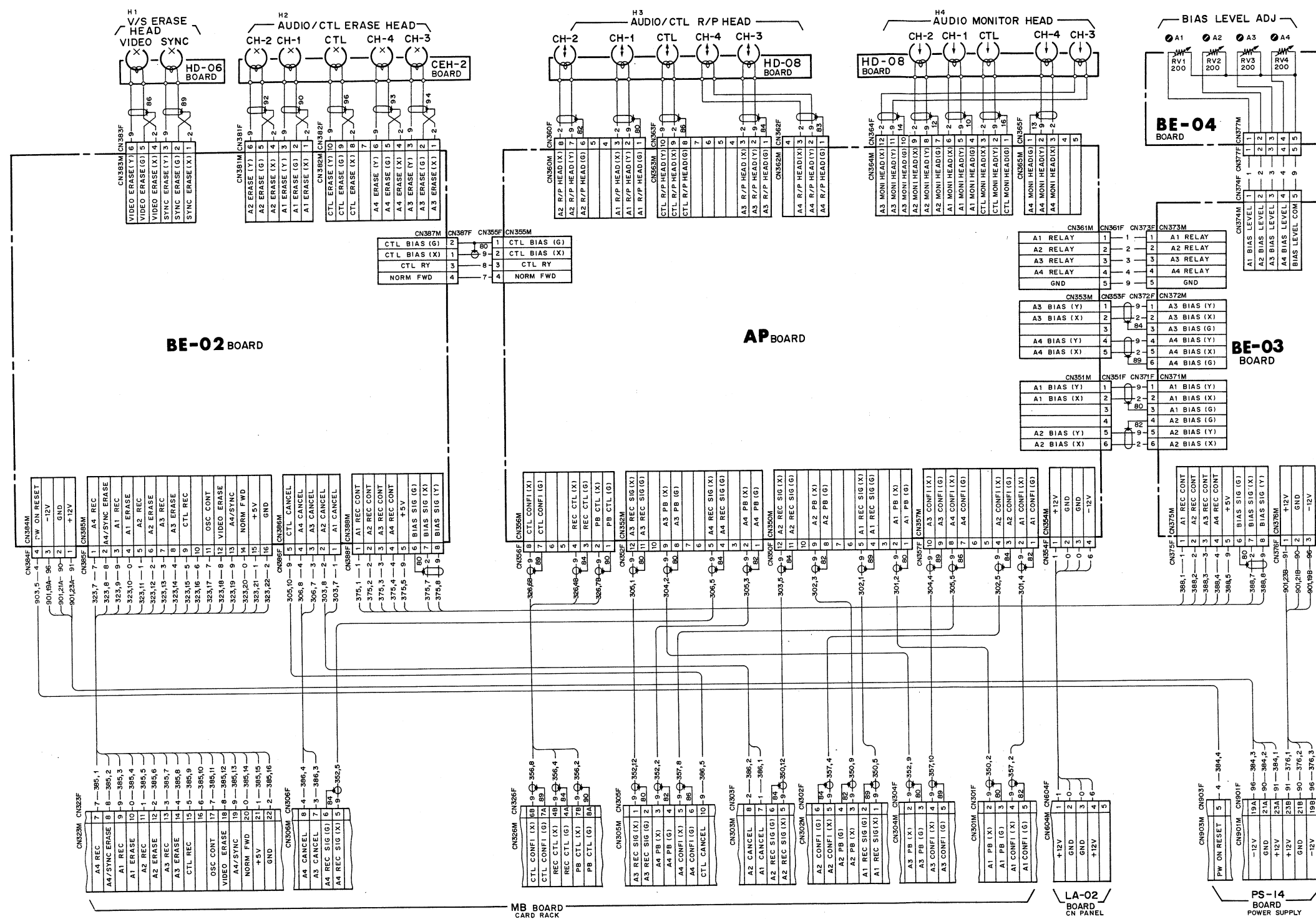
BVH-2180(J); #10001-
BVH-2180(U/C); #10001-
BVH-2180 PS; #10001-
BVH-2180 PM; #10001-

FRAME WIRING (2/2); TAPE TRANSPORT; FOR 04/14 MODEL

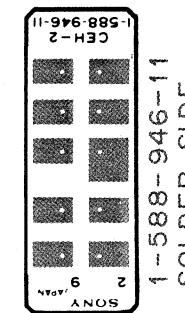
HD-06 BOARD; Video/Sync Erase Head
CEH-2 BOARD; Audio/CTL Erase Head
HD-08 BOARD; Audio/CTL R/P, Monitor Head

HD-06 BOARD (1-606-679-11)

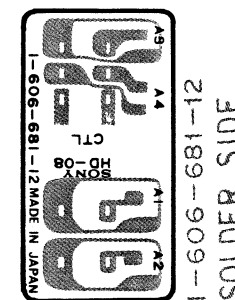
Solder Side

**CEH-2 BOARD (1-588-946-11)**

Solder Side

**HD-08 BOARD (1-606-681-12)**

Solder Side

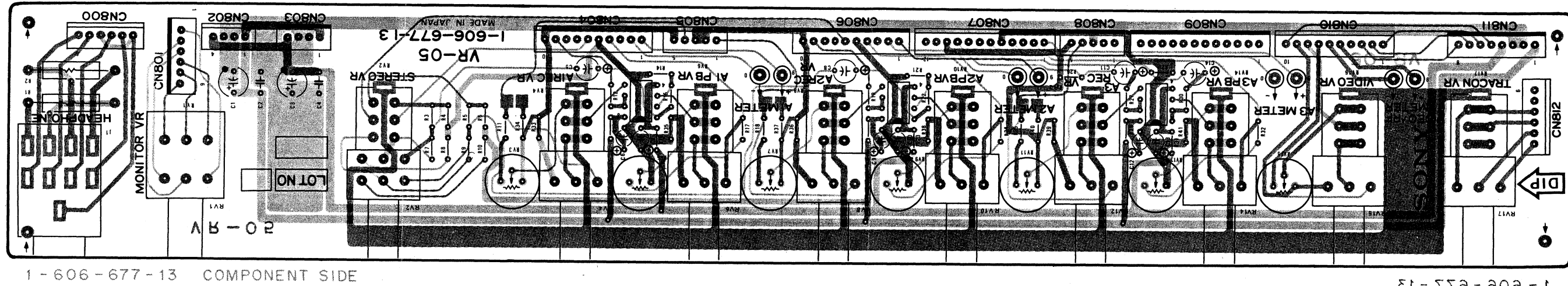


FRAME WIRING (FOR 04/14)

TAPE TRANSPORT(2/2)

BVH-2000PS;#10001-
BVH-2180PS;#10001-

VR-05 BOARD (1-606-677-13) ; FOR 00/10/02/12 MODEL
Component Side

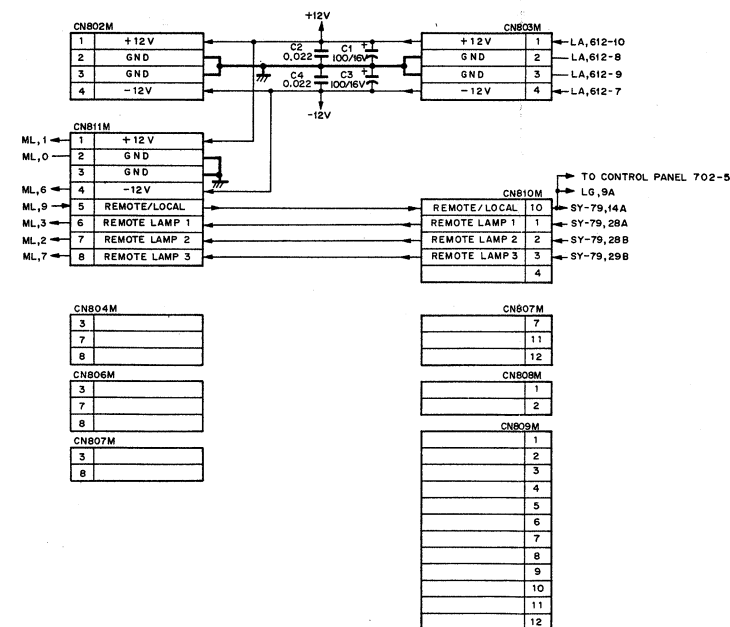
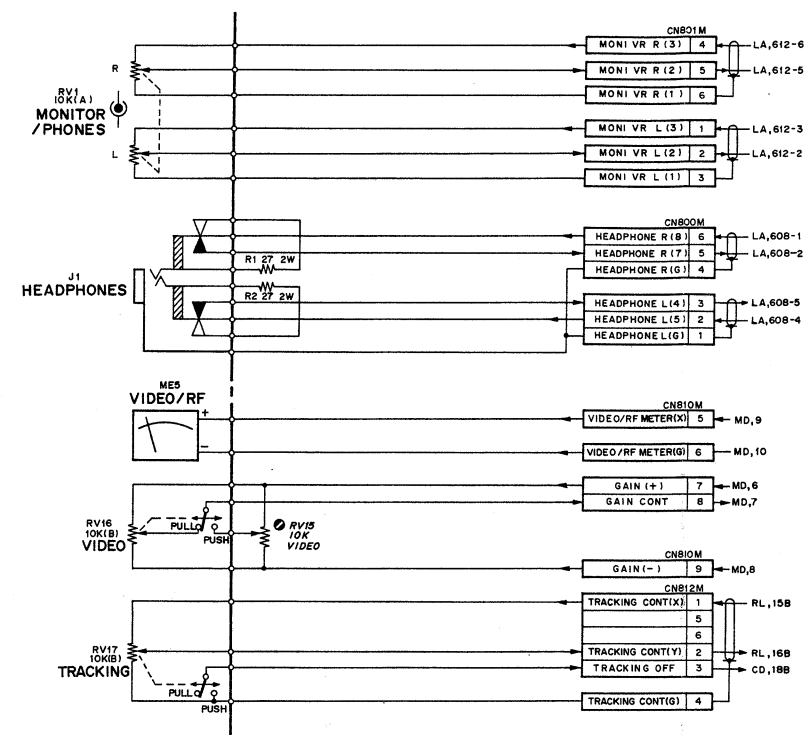
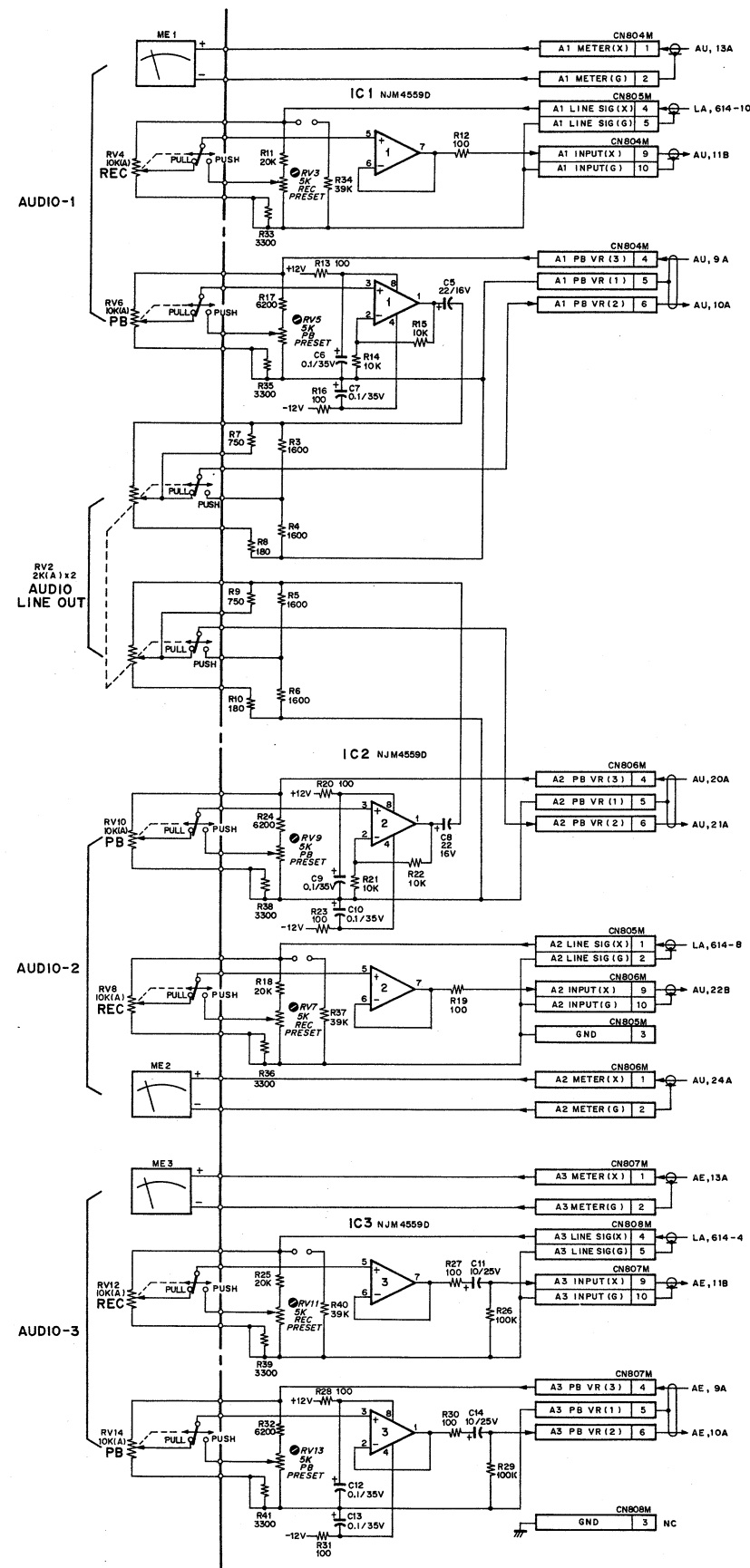


1-606-677-13 COMPONENT SIDE

1-606-677-13

VR-05 BOARD; FOR 00/10/02/12 MODEL

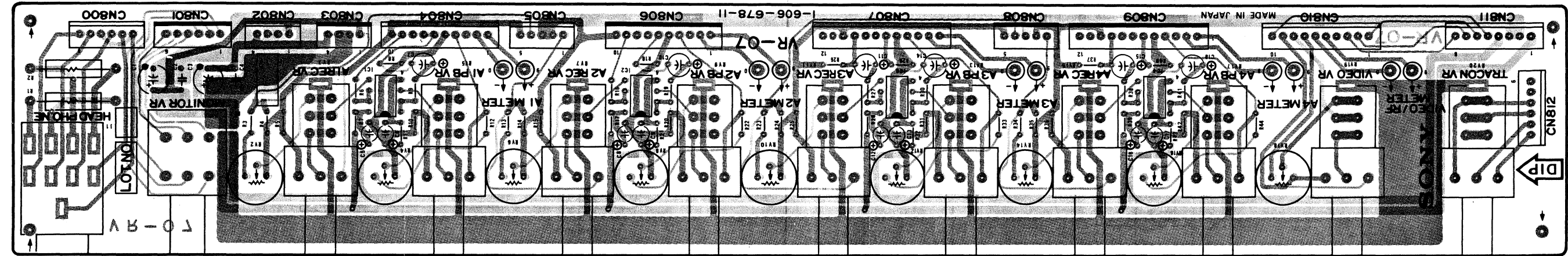
Level Control/Indicator



VR-05 BOARD FOR BVH-2000/PS/PM 00/10/02/12 MODEL, BVH-2180/PS/PM 00/02 MODEL
BOARD NO 1-606-677-11/-12/-13 & UP

BVH-2000(J); #10001-
BVH-2000(U/C); #10001-
BVH-2000PS; #10001-
BVH-2000PM; #10001-
BVH-2180(J); #10001-
BVH-2180(U/C); #10001-
BVH-2180PS; #10001-
BVH-2180PM; #10001-
BVH-2500(J); #10001-
BVH-2500(U/C); #10001-
BVH-2500P; #10001-

Component Side



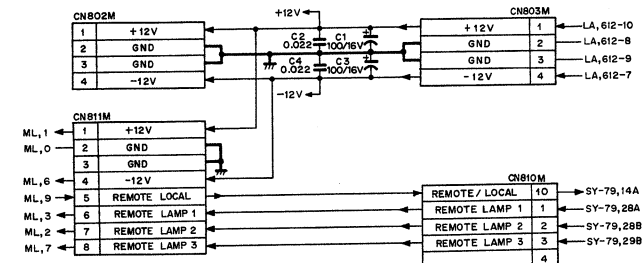
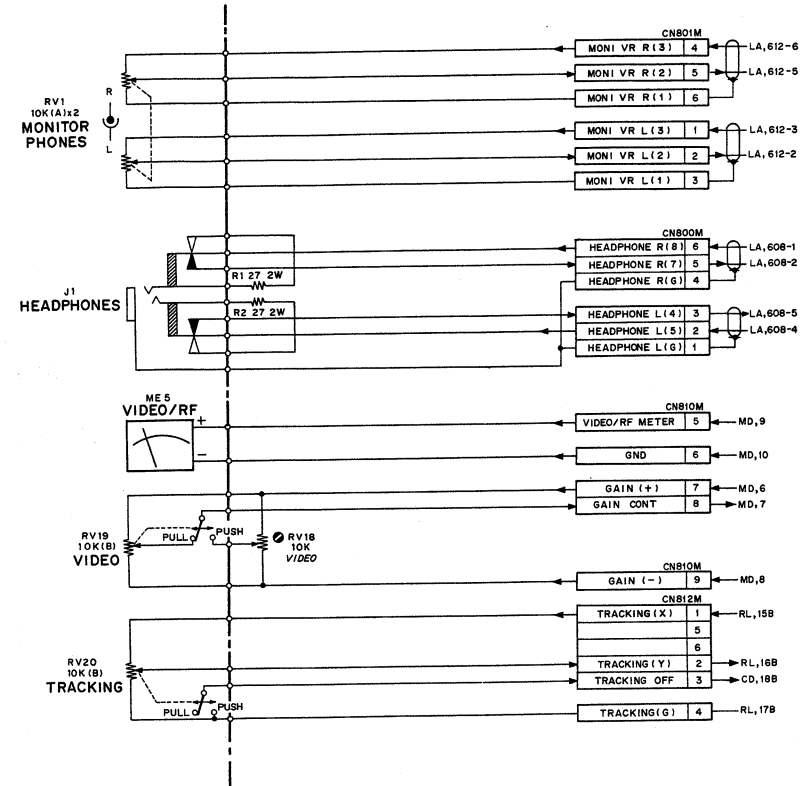
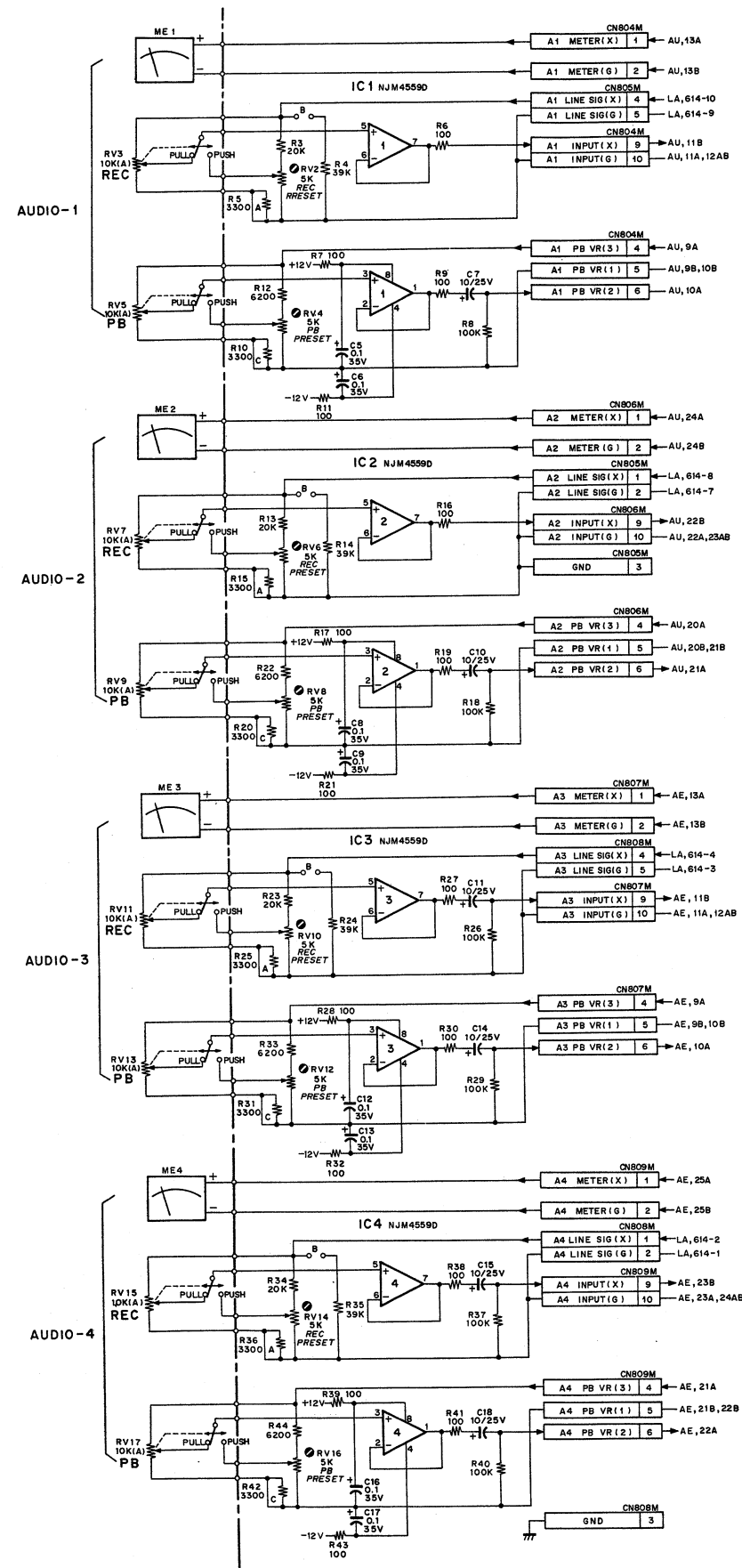
1-606-678-11 COMPONENT SIDE

1-208-202-11

VR-07 BOARD; FOR 04/14 MODEL
Level Control/Indicator

LEVEL CONTROL PANEL **VR-07 (FOR 04/14)**

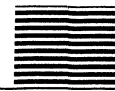
VR-07 (FOR 04/14) LEVEL CONTROL PANEL



CN806M	3	NC
	7	NC
	8	NC

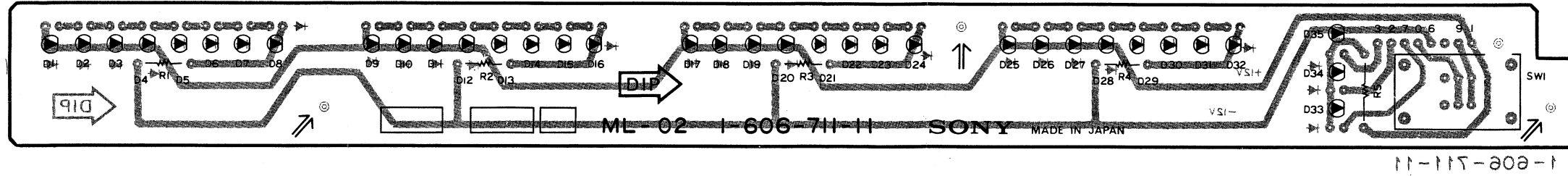
CN809M	NC	11
	NC	12
	NC	3
	NC	7
	NC	8

VR-07 BOARD (FOR 04/14)
BOARD NO. 1-606-678-11
BVH-2000PS; #10001-
BVH-2180PS; #10001-



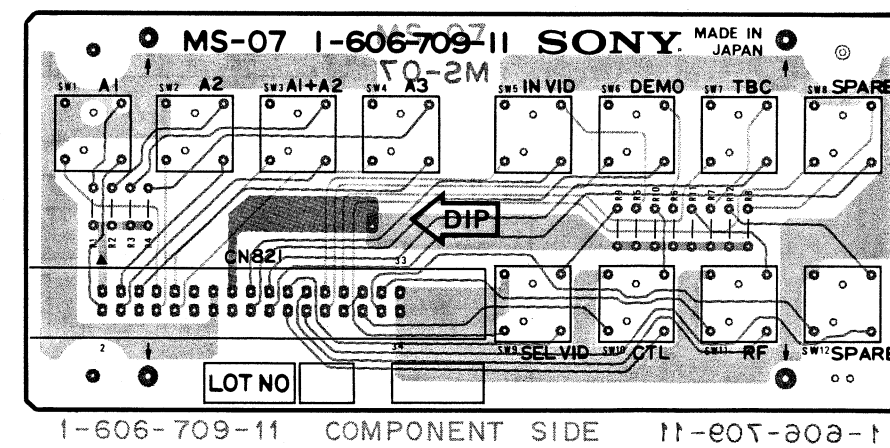
ML-02 BOARD (1-606-711-11) ; FOR 00/10/02/12 MODEL

Component Side



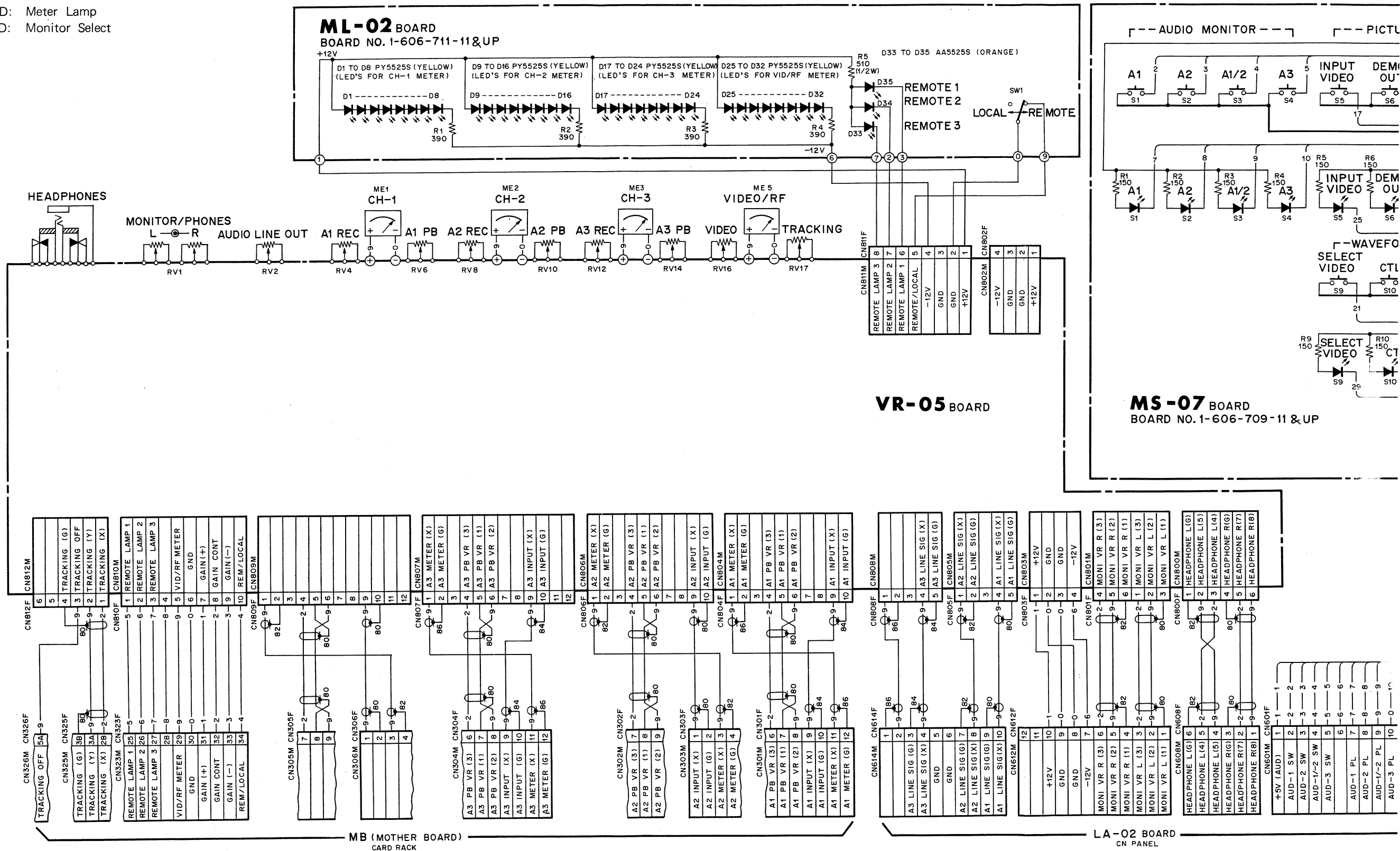
MS-07 BOARD (1-606-709-11)

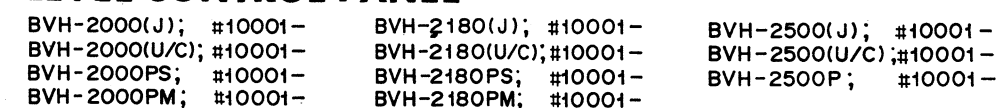
Component Side



FRAME WIRING; LEVEL CONTROL PANEL; FOR 00/10/02/12 MODEL

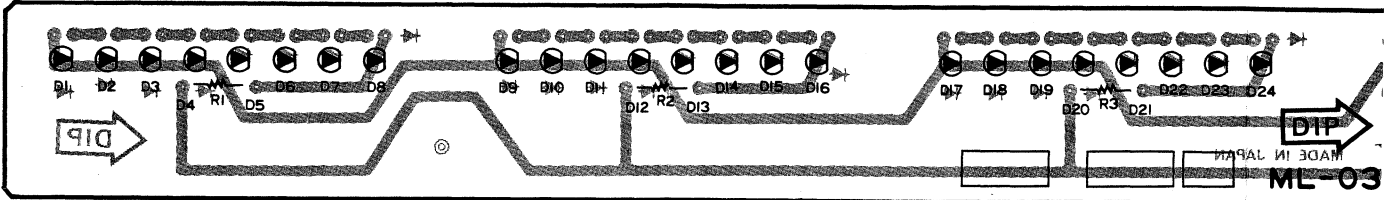
ML-02 BOARD: Meter Lamp
MS-07 BOARD: Monitor Select



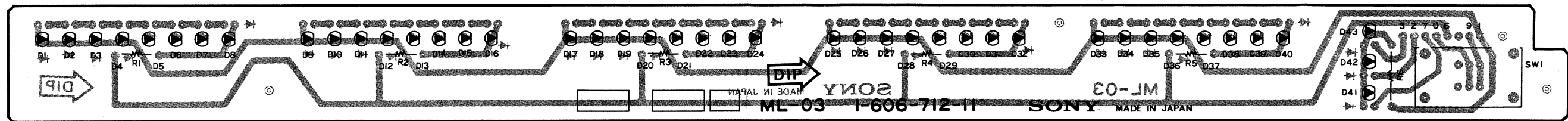




ML-03 BOARD (1-606-712-11)
Component Side



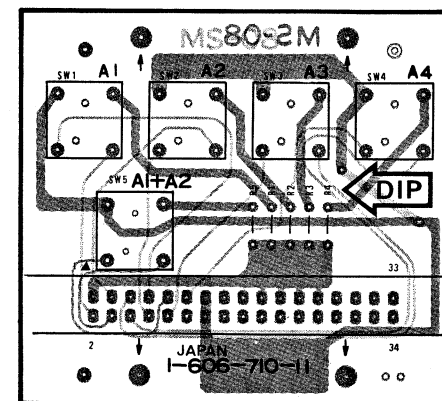
Component Side



1-202-315-11

MS-08 BOARD (1-606-710-11)

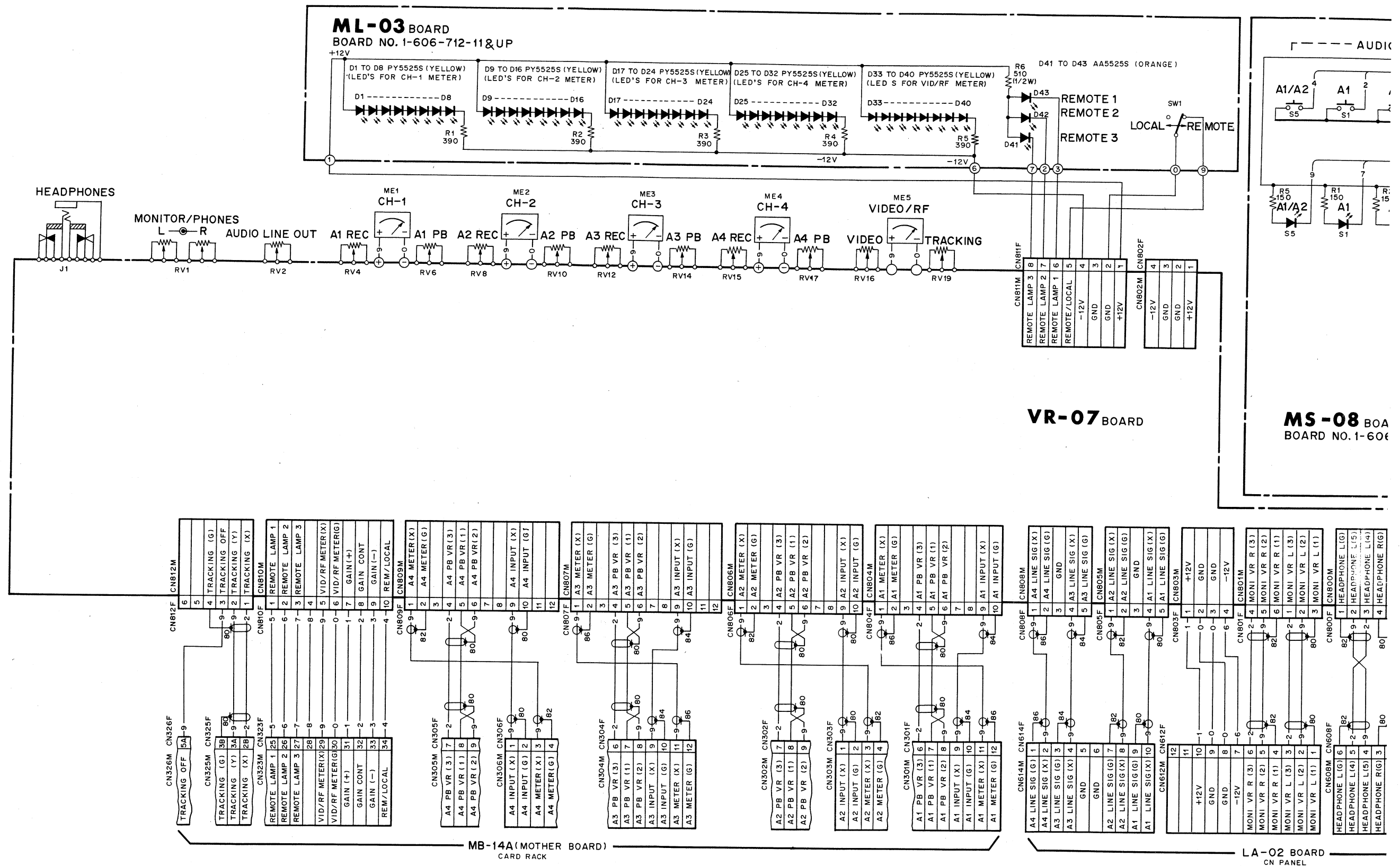
Component Side



1-606-710-11
COMPONENT SIDE

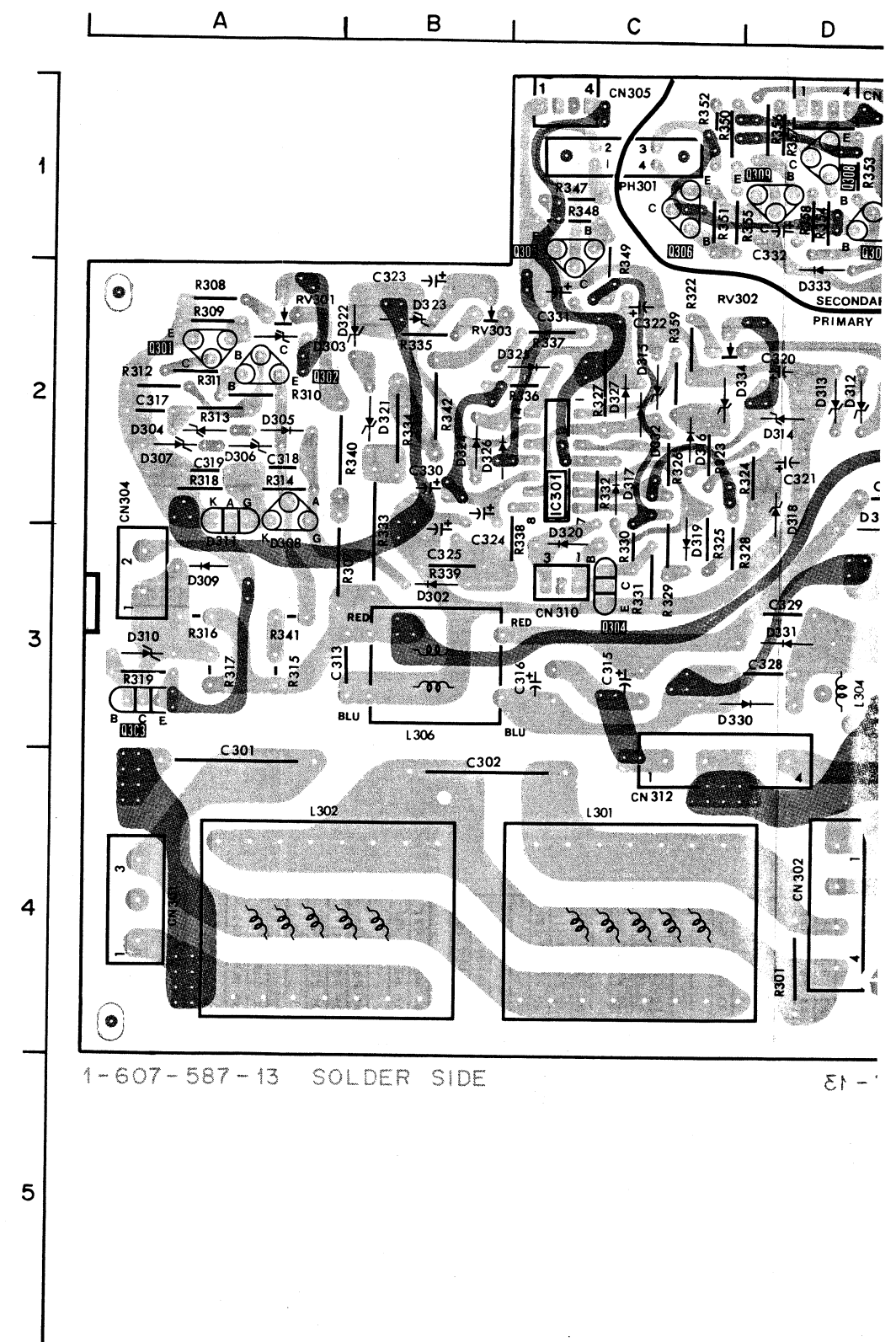
FRAME WIRING; LEVEL CONTROL PANEL; FOR 04/14 MODEL

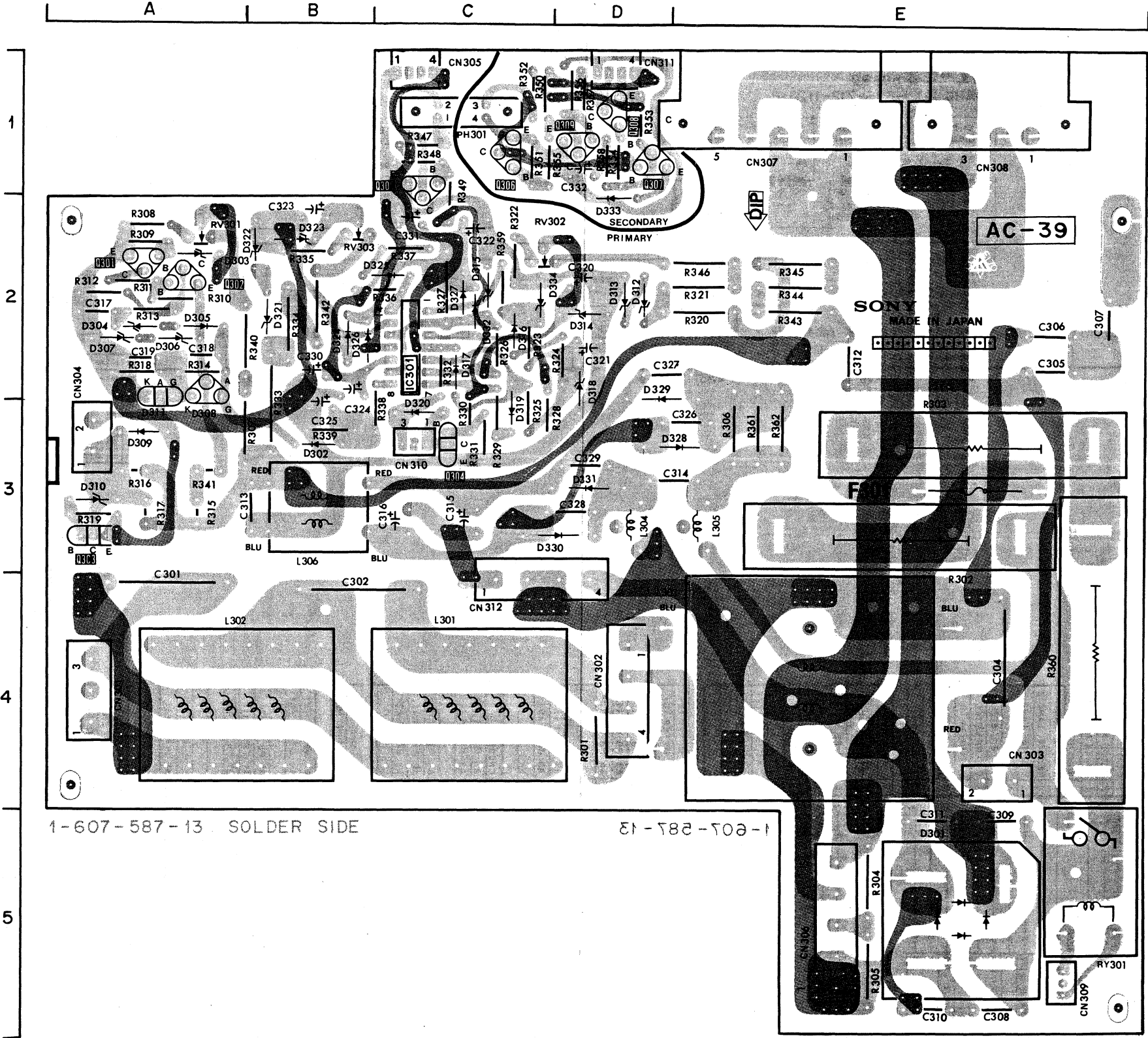
ML-03 BOARD; Meter Lamp
MS-08 BOARD; Monitor Select





Solder Side





AC-39 (1-607-587-13 & UP)
BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

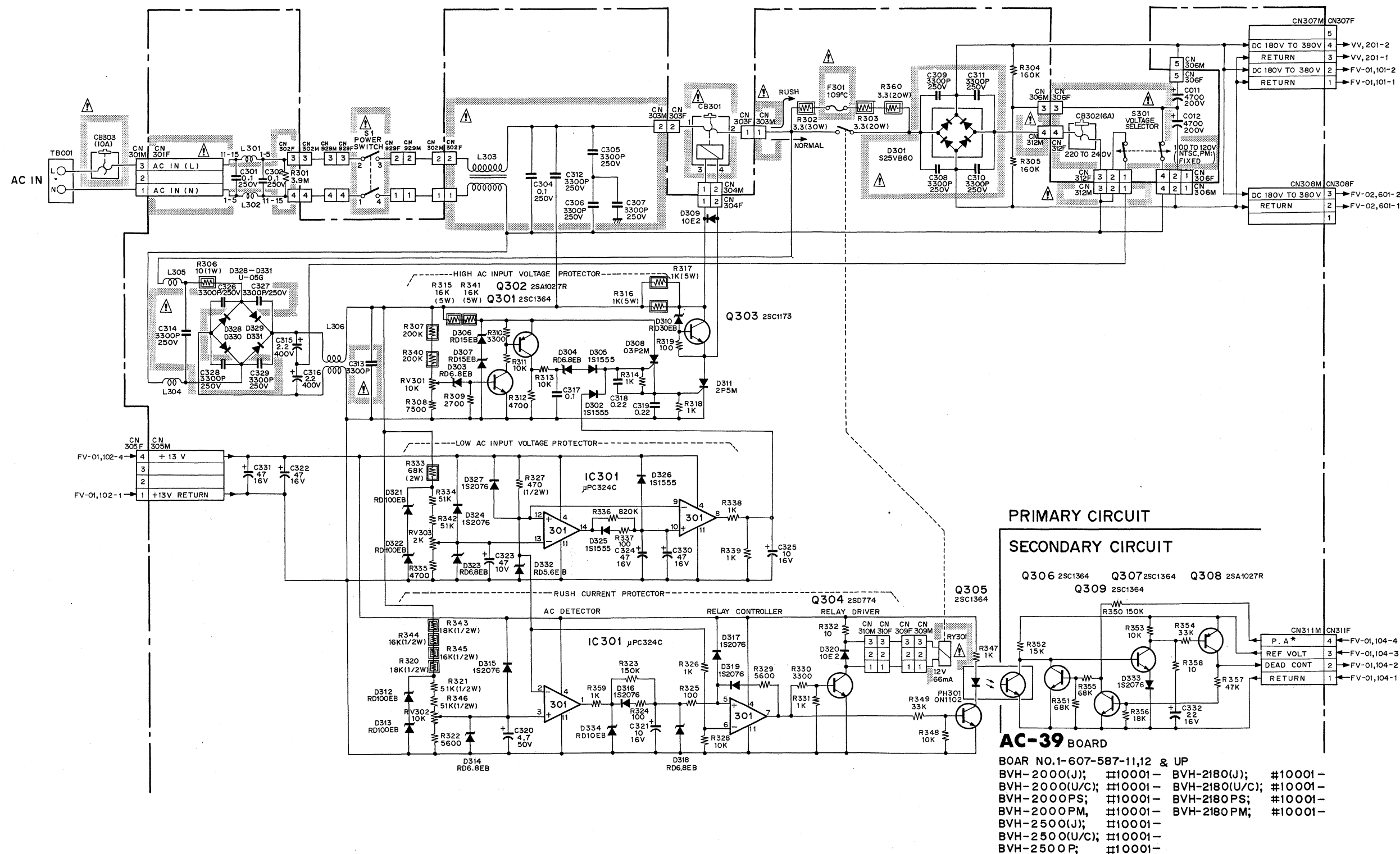
- CN301F 4A
- CN302F 4D
- CN303M 4E
- CN304F 3A
- CN305M 1C
- CN306M 5E
- CN307M 1E
- CN308M 1E
- CN309M 5E
- CN310M 3C
- CN311M 1D
- CN312M 4C
- D301 5E
- D302 3B
- D303 2A
- D304 2A
- D305 2A
- D306 2A
- D307 2A
- D308 2A
- D309 3A
- D310 3A
- D311 2A
- D312 2D
- D313 2D
- D314 2D
- D315 2C
- D316 2C
- D317 2C
- D318 2D
- D319 3C
- D320 3C
- D321 2B
- D322 2B
- D323 2B
- D324 2B
- D325 2C
- D326 2B
- D327 2C
- D328 3E
- D329 2D
- D330 3D
- D331 3D
- D332 2C
- D333 2D
- D334 2C
- IC301 2C
- PH301 1C
- Q301 2A
- Q302 2A
- Q303 3A
- Q304 3C
- Q305 1C
- Q306 1C
- Q307 1D
- Q308 1D
- Q309 1D
- RV301 2A
- RV302 2C
- RV303 2B
- RY301 5E

AC-39 BOARD

Primary Rectifier

POWER SUPPLY AC-39

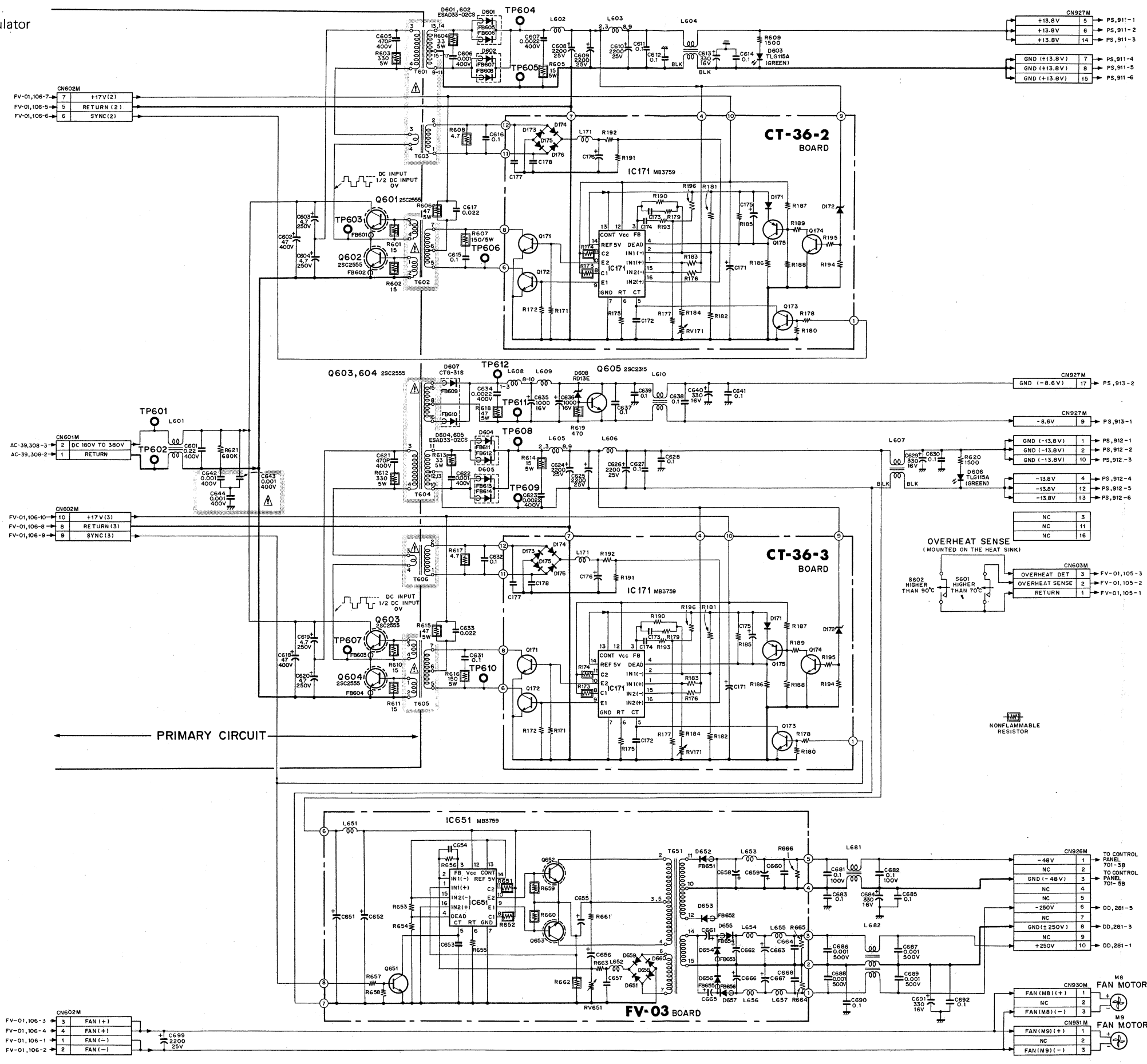
AC-39 POWER SUPPLY



FV-02 BOARD Switching Regulator

POWER SUPPLY FV-02

FV-02 POWER SUPPLY

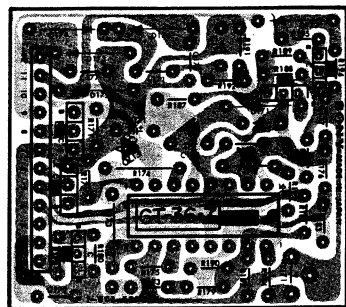


C-185

C-186

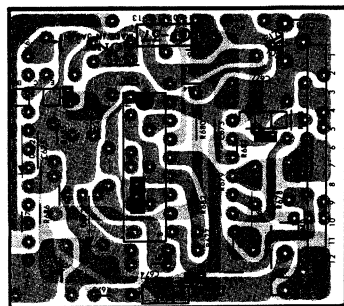
FV-02 BOARD
 BOARD NO. 1-607-590-11 & UP
 BVH-2000(J); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000PS; #10001-
 BVH-2000PM; #10001-
 BVH-2180(J); #10001-
 BVH-2180(U/C); #10001-
 BVH-2180PS; #10001-
 BVH-2180PM; #10001-

CT-36-7 BOARD
(1-607-591-53)
Solder Side



VV-01 BOARD
(1-607-589-13)
Solder Side

CT-37 BOARD
(1-607-592-13)
Solder Side

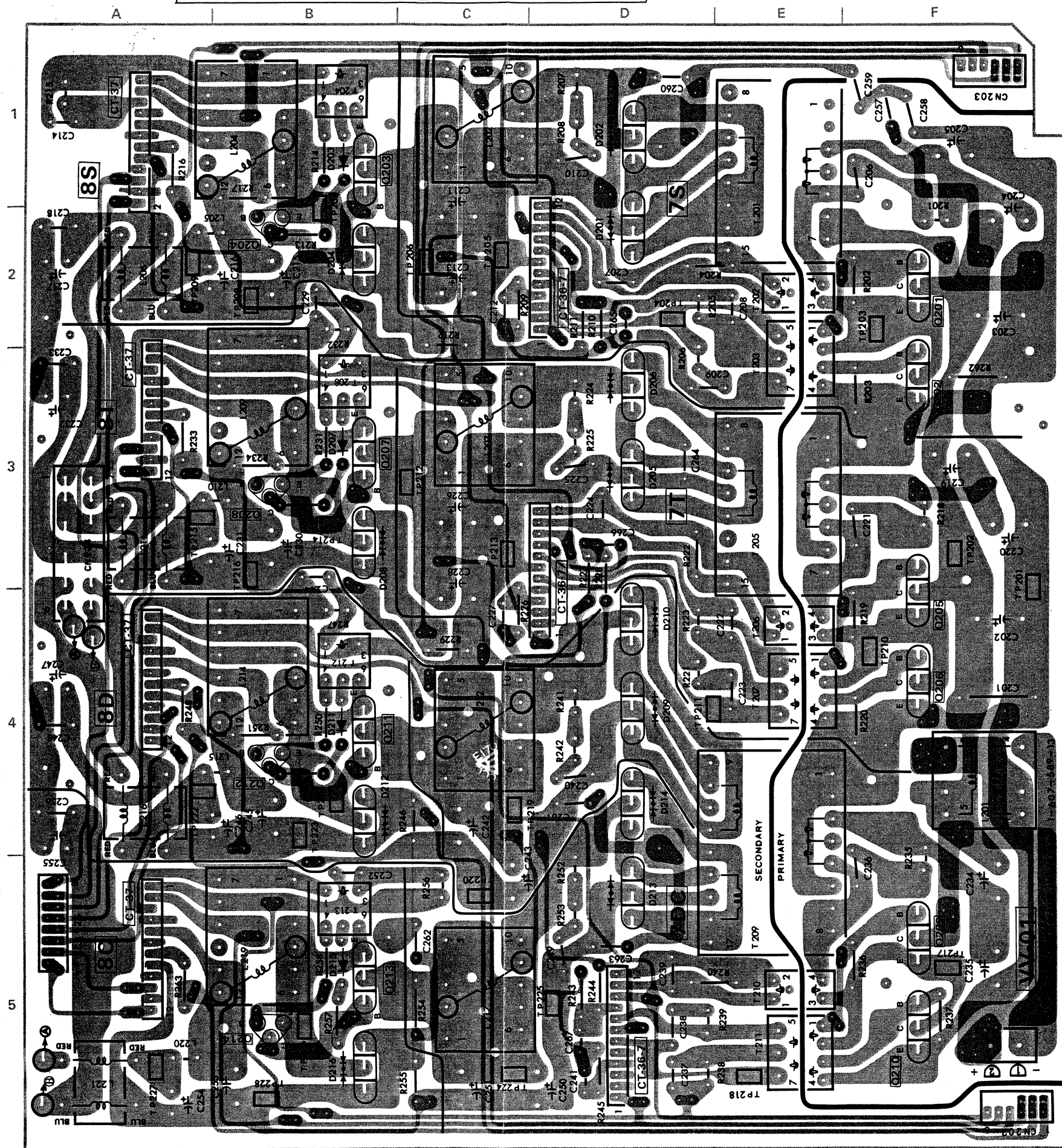


1-607-591-53
SOLDER SIDE
82-102-103-1

1-607-592-13
SOLDER SIDE
81-502-103-1

POWER SUPPLY VV-01

VV-01 POWER SUPPLY



■ 1-607-589-13 COMPONENT SIDE

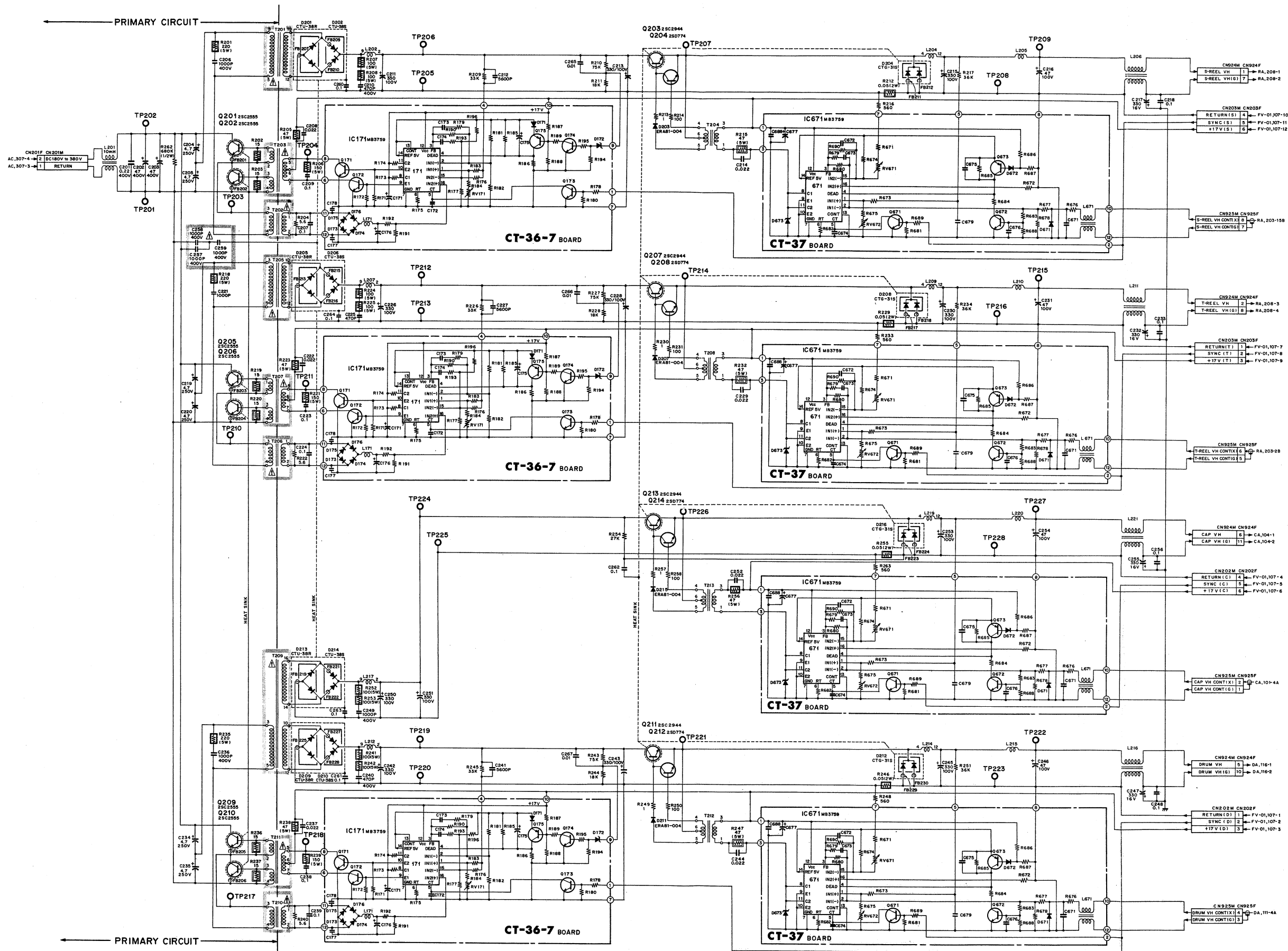
■ 1-607-589-13 SOLDER SIDE

VV-01 (1-607-589-12 & UP)

BVH-2000/PS/PM	
BVH-2180/PS/PM	
BVH-2500/P	
CN201M	5F
CN202M	5F
CN203M	1F
CN924M	3A
CN925M	5A
D201	2D
D202	1D
D203	1B
D204	2B
D205	3D
D206	3D
D207	3B
D208	3B
D209	4D
D210	4D
D211	4B
D212	4B
D213	5D
D214	4D
D215	5B
D216	5B
Q201	2F
Q202	3F
Q203	1B
Q204	2B
Q205	3F
Q206	4F
Q207	3B
Q208	3B
Q209	5F
Q210	5F
Q211	4B
Q212	4B
Q213	5B
Q214	5B
TP201	3F
TP202	3F
TP203	2F
TP204	2D
TP205	2C
TP206	2C
TP207	2B
TP208	2B
TP209	2A
TP210	4F
TP211	4D
TP212	3C
TP213	3C
TP214	3B
TP215	3A
TP216	3B
TP217	5F
TP218	5E
TP219	4C
TP220	5C
TP221	4B
TP222	4A
TP223	4B
TP224	9C
TP225	5D
TP226	5B
TP227	5A
TP228	5B

C-187

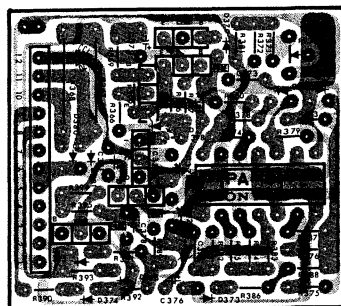
C-188



VV-01 BOARD
 BOARD NO. 1-607-589-11 & UP
 BVH-2000(U); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000PS; #10001-
 BVH-2000PM; #10001-
 BVH-2180(U); #10001-
 BVH-2180(U/C); #10001-
 BVH-2180PS; #10001-
 BVH-2180PM; #10001-
 BVH-2500(U); #10001-
 BVH-2500(U/C); #10001-
 BVH-2500PS; #10001-

PA-19 BOARD
(1-607-594-14)

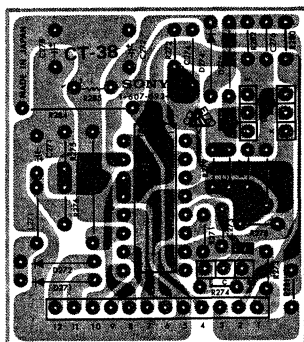
Solder Side



1-607-594-14
SOLDER SIDE
41-102-700-1

CT-38 BOARD
(1-607-593-13)

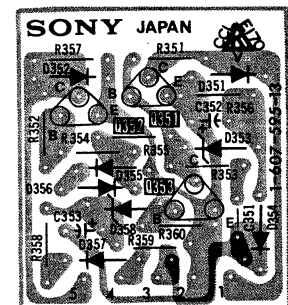
Solder Side



1-607-593-13
SOLDER SIDE
1-607-593-13
COMPONENT SIDE

ST-21 BOARD
(1-607-595-13)

Solder Side



1-607-595-13
SOLDER SIDE
1-607-595-13
COMPONENT SIDE

L103,104

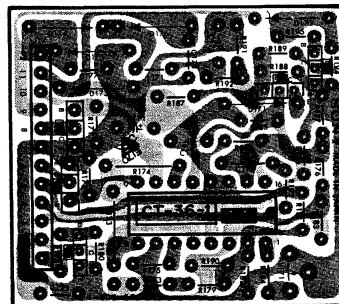
WHITE LINE

(-)

(+)

CT-36-1 BOARD
(1-607-591-13)

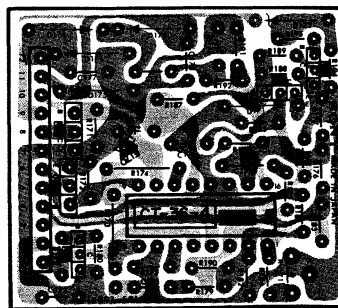
Solder Side



1-607-591-13
SOLDER SIDE
41-102-700-1

CT-36-4 BOARD
(1-607-591-43)

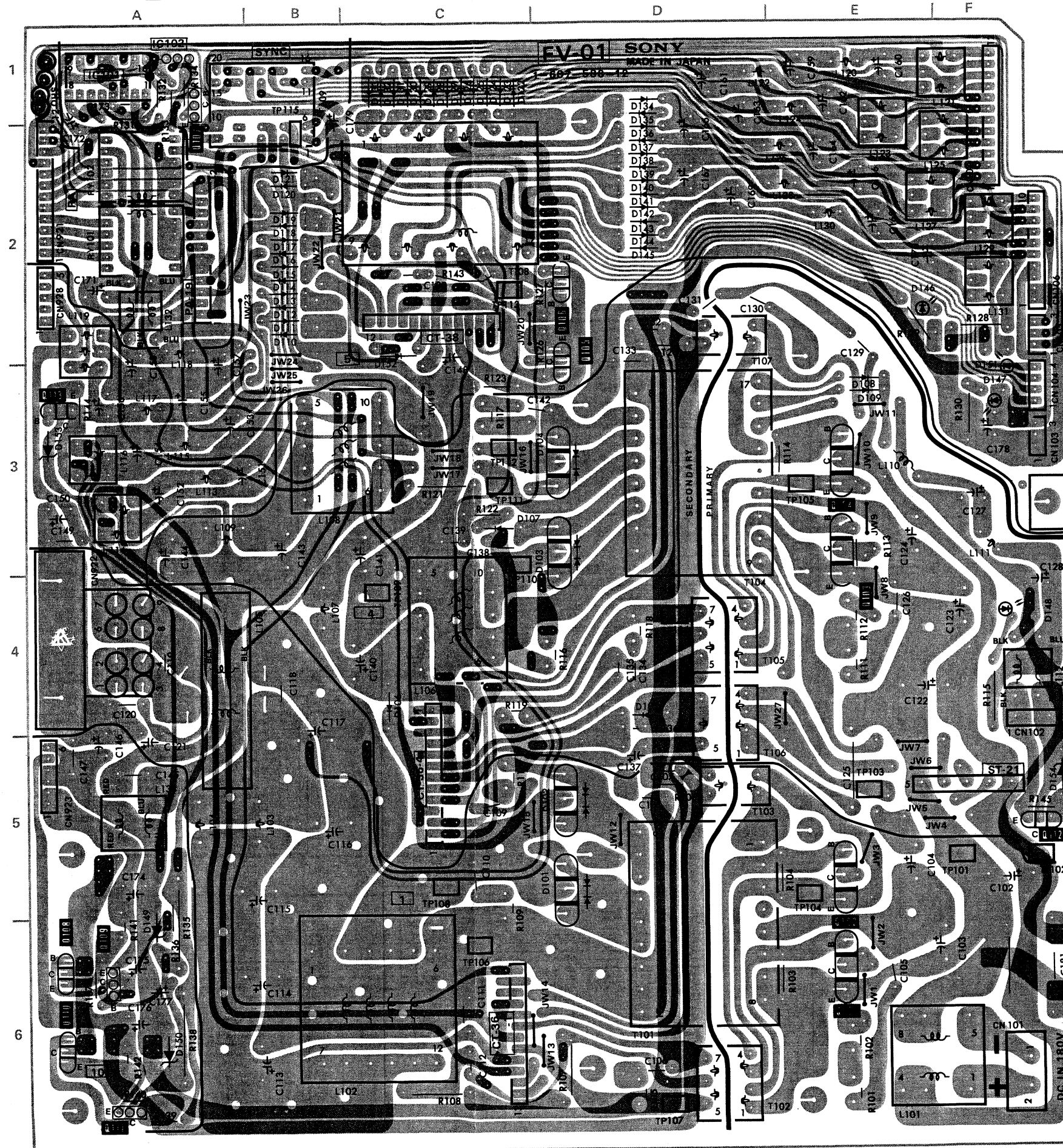
Solder Side



1-607-591-43
SOLDER SIDE
41-102-700-1

POWER SUPPLY FV-01

FV-01 POWER SUPPLY



FV-01 (1-607-588-11 & UP)

BVH-2000/PS/PM
BVH-2180/PS/PM
BVH-2500/P

CN101M 6F
CN102M 4F
CN103M 3F
CN104M 3F
CN105M 2F
CN106M 2F
CN107M 2F
CN921M 2A
CN922F 4A
CN923M 5A
CN928M 2A

D101 5D
D102 5D
D103 3D
D104 3D
D105 4D
D106 4C
D107 3C
D108 3E
D109 3E
D110 2B
D111 2B
D112 2B
D113 2B
D114 2B
D115 2B
D116 2B
D117 2B
D118 2B
D119 2B
D120 2B
D121 2B
D122 1C
D123 1C
D124 1C
D125 1C
D126 1C
D127 1C
D128 1C
D129 1C
D130 1C
D131 1C
D132 1C
D133 1C
D134 1D
D135 1D
D136 2D
D137 2D
D138 2D
D139 2D
D140 2D
D141 2D
D142 2D
D143 2D
D144 2D
D145 2D
D146 2E
D147 3F
D148 4F
D149 6A
D150 6A
D151 3F
D152 2C
D153 3A
D154 5F

IC101 1A
IC102 1A

Q101 6E
Q102 5E
Q103 3E
Q104 3E
Q105 2D
Q106 2D
Q107 1A
Q108 6A
Q109 6A
Q110 6A
Q111 6A
Q112 5F
Q113 3A

RY101 2A
RY102 2A

S101 4D
S102 6D

TP101 5F
TP102 5F
TP103 5E
TP104 5E
TP105 5E
TP106 6C
TP107 6D
TP108 6D
TP109 4C
TP110 3C
TP111 3C
TP112 3C
TP113 2B
TP114 2B
TP115 2B
TP116 4D

1-607-588-12 COMPONENT SIDE

1-607-588-12 SOLDER SIDE

C-192

BVH-2000/PS/PM
BVH-2180/PS/PM

C-221

BVH-2500/P



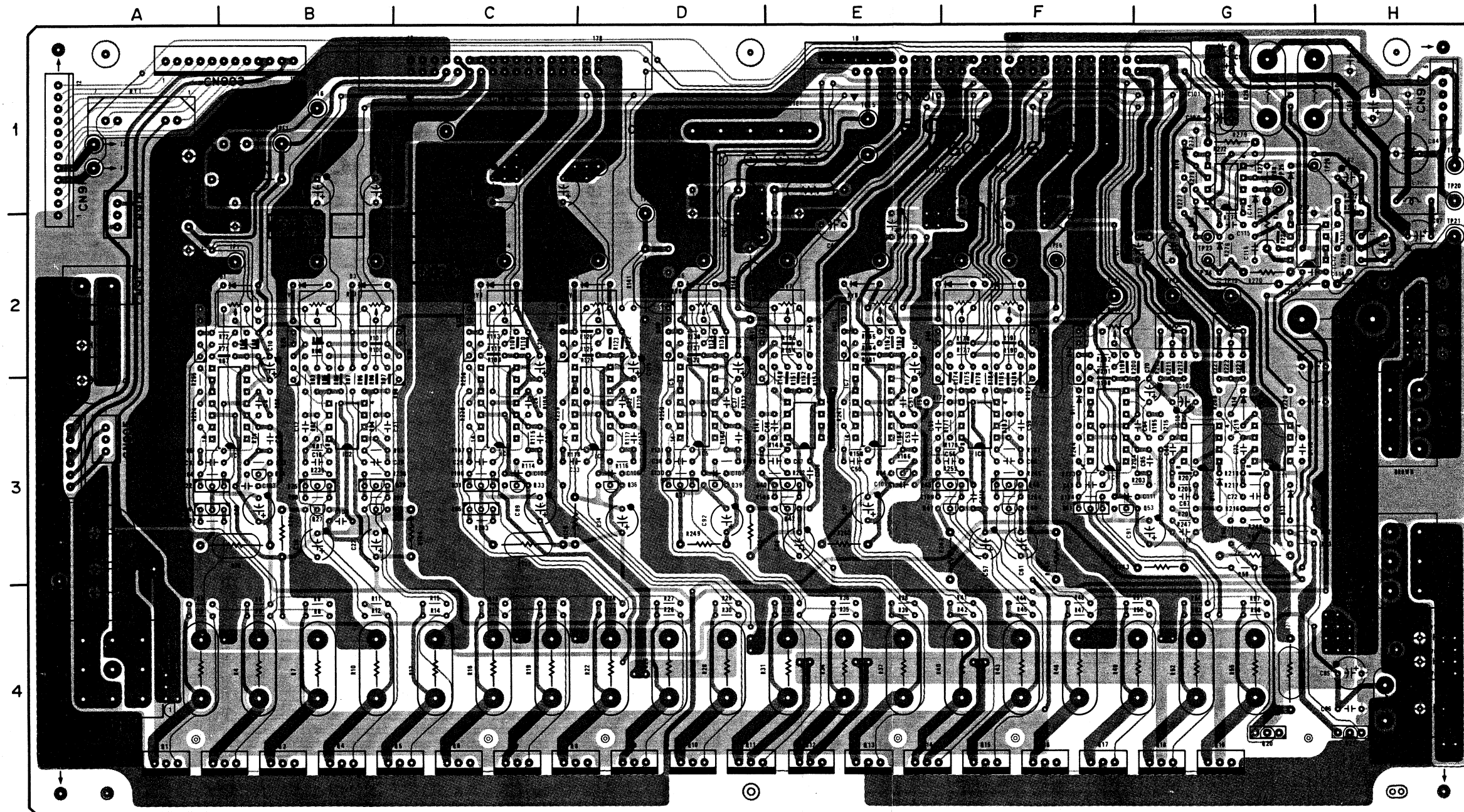
PS-14 BOARD (1-606-716-13)
Component Side

1-606-716-13

POWER SUPPLY PS-14

PS-14 POWER SUPPLY

1-606-716-13



1-606-716-13 COMPONENT SIDE

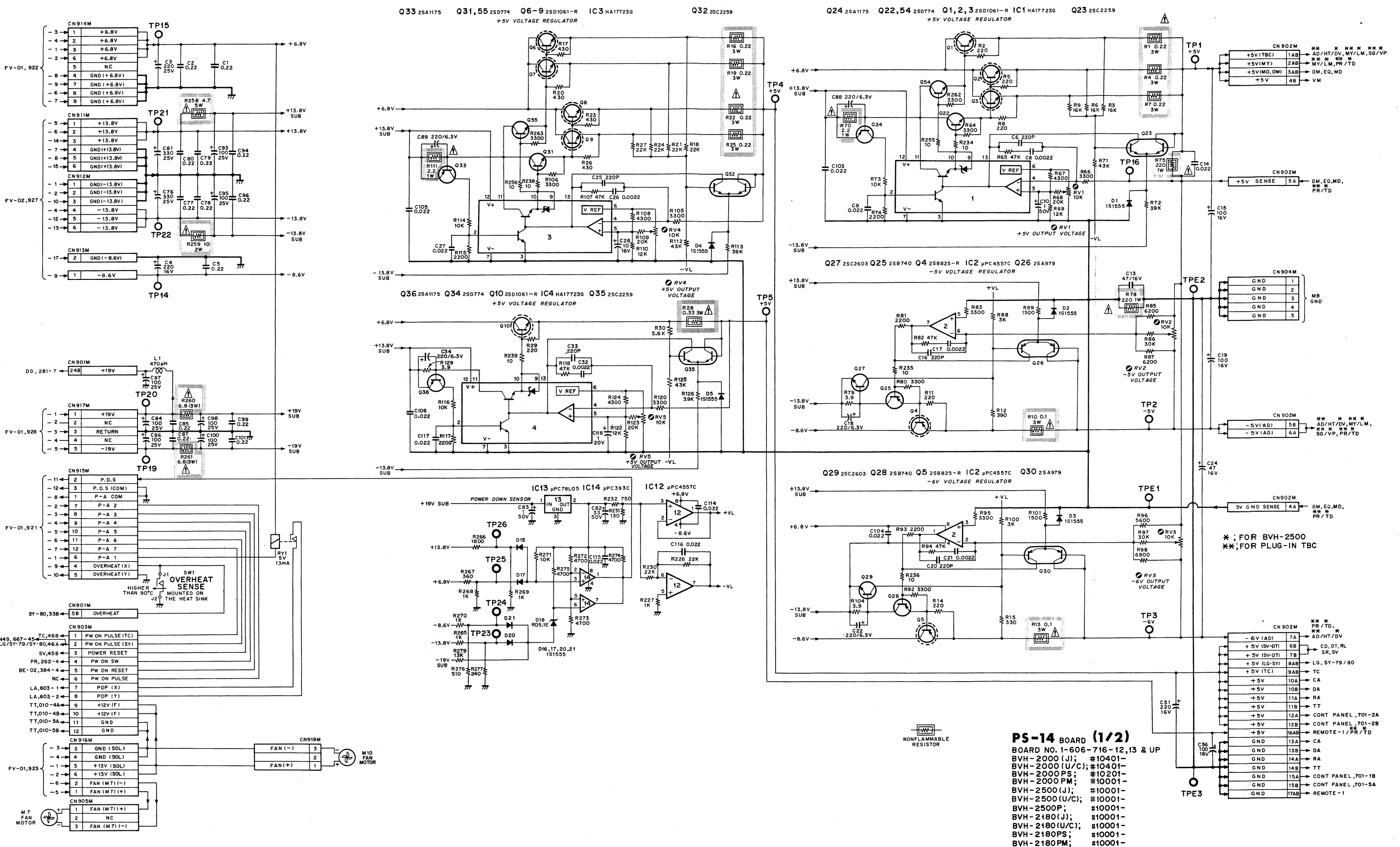
1-606-716-13

PS-14 (1-606-716-13 & UP)			
BVH-2000/PS/PM	Q20	4G	
BVH-2180/PS/PM	Q21	4H	
BVH-2500/P	Q22	3A	
	Q23	2A	
CN901M	Q24	3B	
1F	Q25	3B	
CN902M	Q26	2B	
1C	Q27	3B	
CN903M	Q28	3B	
1B	Q29	3B	
CN904M	Q30	2C	
1D	Q31	3C	
CN905M	Q32	2C	
3A	Q33	3C	
CN911M	Q35	2C	
3H	Q36	3D	
CN912M	Q37	3D	
3H	Q38	2D	
CN913M	Q39	3D	
2A	Q40	3E	
CN914M	Q41	2D	
4A	Q42	3E	
CN915M	Q43	2E	
1A	Q44	3E	
CN916M	Q45	3F	
3A	Q46	2E	
CN917M	Q47	3F	
1H	Q48	3F	
CN918M	Q49	2F	
1A	Q50	3F	
	Q51	3F	
D1	Q52	2F	
D2	Q53	3F	
D3	Q54	3A	
D4	Q55	3C	
D5	Q56	2D	
D6	Q57	2D	
D7	Q58	2E	
D8	Q59	2E	
D9	Q60	2F	
D10	Q61	2F	
D11	Q62	2F	
D12	Q63	2F	
D13	Q64	2F	
D14	Q65	2F	
D15	Q66	2F	
D16	Q67	2F	
D17	Q68	2F	
D18	Q69	2F	
D19	Q70	2F	
D20	Q71	2F	
D21	Q72	2F	
	Q73	2F	
IC1	Q74	2F	
IC2	Q75	2F	
IC3	Q76	2F	
IC4	Q77	2F	
IC5	Q78	2F	
IC6	Q79	2F	
IC7	Q80	2F	
IC8	Q81	2F	
IC9	Q82	2F	
IC10	Q83	2F	
IC11	Q84	2F	
IC12	Q85	2F	
IC13	Q86	2F	
IC14	Q87	2F	
	Q88	2F	
Q1	Q89	2F	
Q2	Q90	2F	
Q3	Q91	2F	
Q4	Q92	2F	
Q5	Q93	2F	
Q6	Q94	2F	
Q7	Q95	2F	
Q8	Q96	2F	
Q9	Q97	2F	
Q10	Q98	2F	
Q11	Q99	2F	
Q12	Q100	2F	
Q13	Q101	2F	
Q14	Q102	2F	
Q15	Q103	2F	
Q16	Q104	2F	
Q17	Q105	2F	
Q18	Q106	2F	
Q19	Q107	2F	

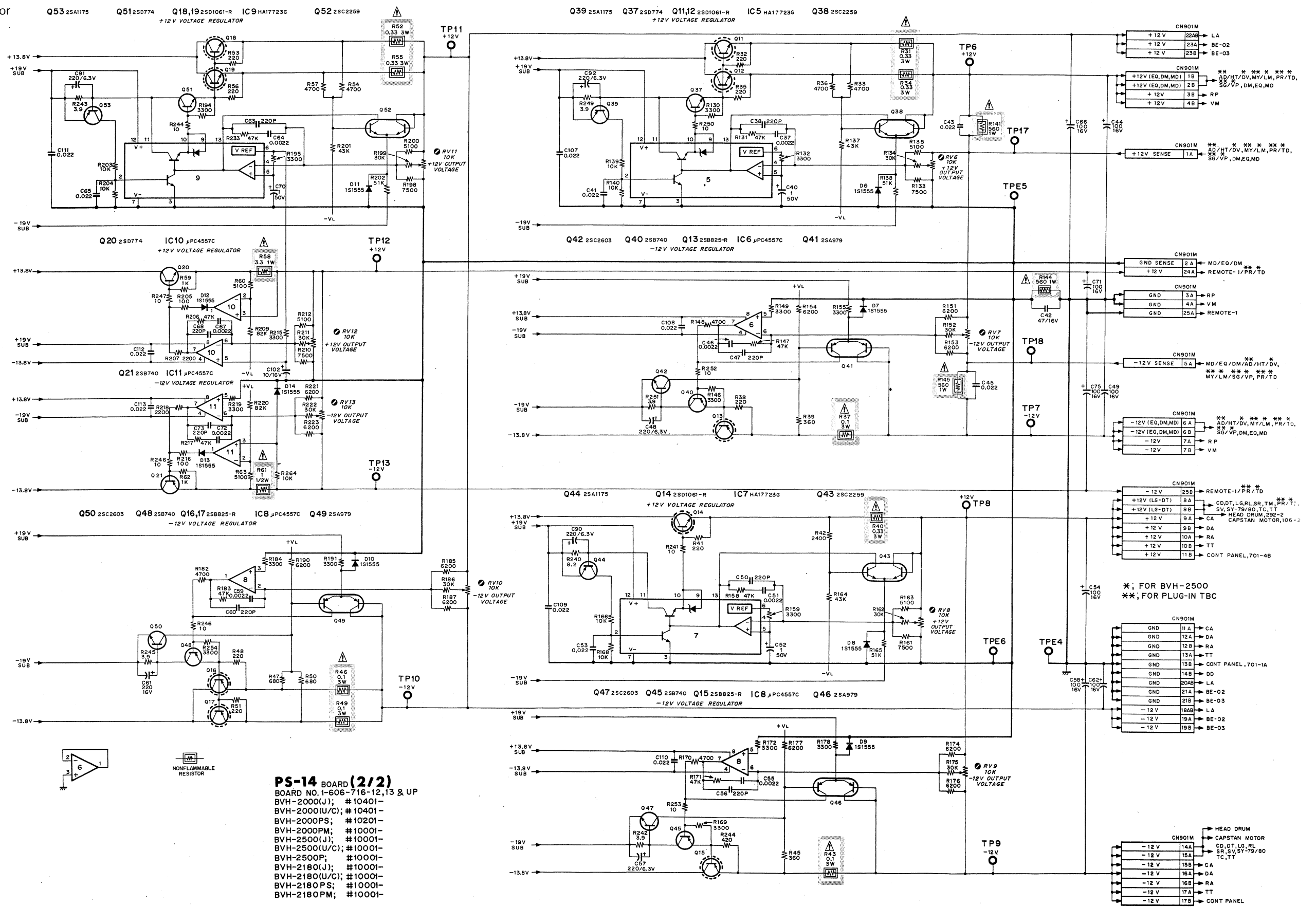
PS-14 BOARD (1/2)
Series Regulator

POWER SUPPLY PS-14 (1/2)

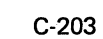
PS-14 (1/2) POWER SUPPLY



Series Regulator



C-202



FRAME WIRING (1/2) POWER SUPPLY



BVH-2000(J); #10001-
 BVH-2000(U/C); #10001-
 BVH-2000PS; #10001-
 BVH-2000PM; #10001-
 BVH-2180(J); #10001-
 BVH-2180(U/C); #10001-
 BVH-2180PS; #10001-
 BVH-2180PM; #10001-

C-208

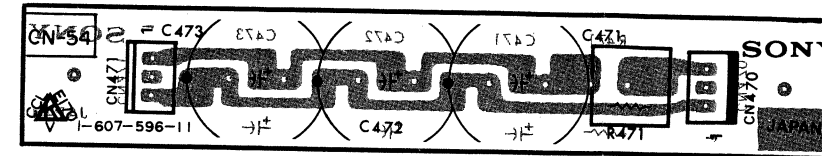
POWER SUPPLY CN-54



CN-54 POWER SUPPLY

CN-54 BOARD (1-607-596-11)

Component Side



1-607-596-11

C-209

C-210

BVH-2500/P

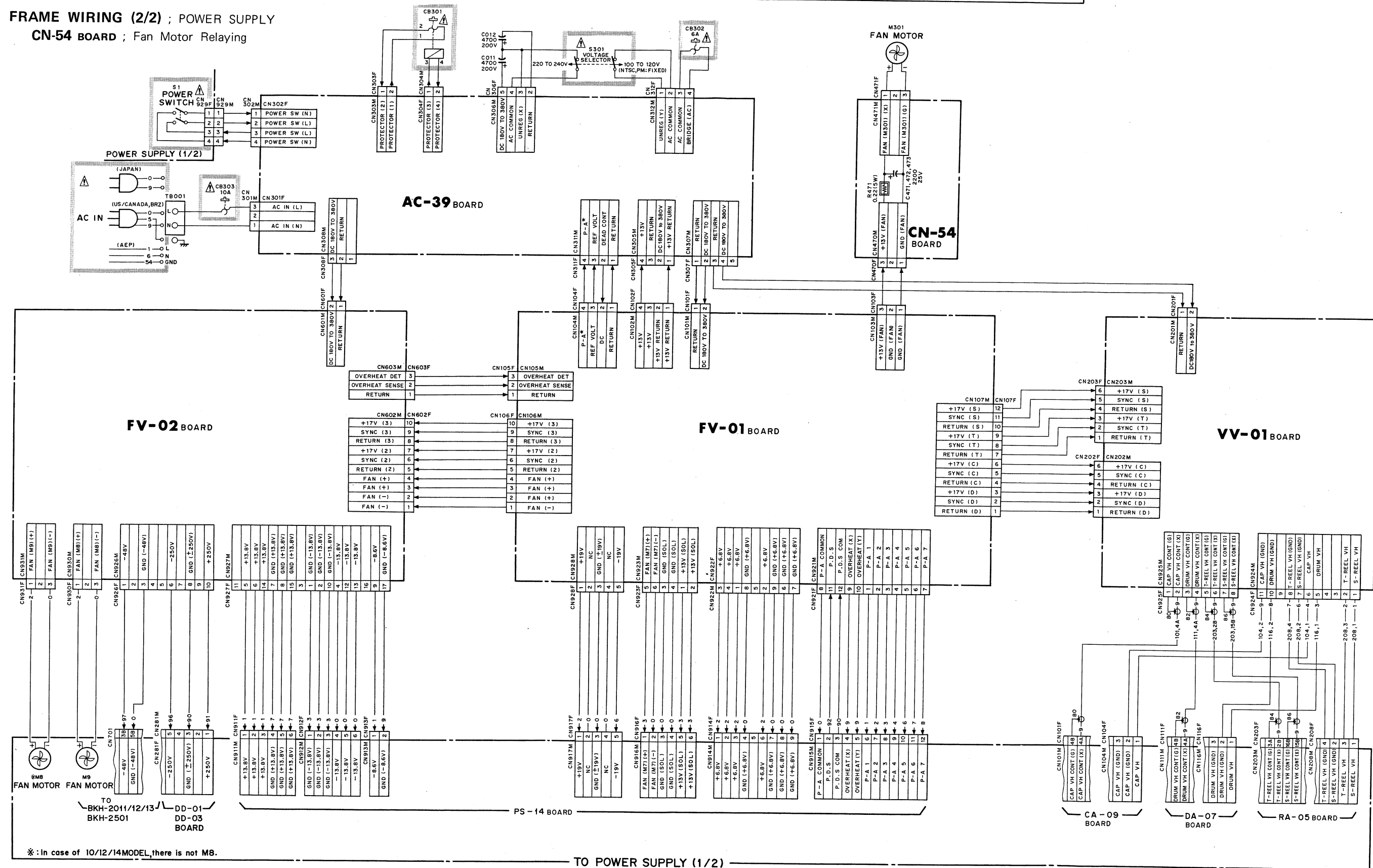
C-239

C-240

BVH-2000/PS/PM
BVH-2180/PS/PM

09

C-210

FRAME WIRING (2/2) ; POWER SUPPLY
CN-54 BOARD ; Fan Motor Relaying

* : In case of 10/12/14MODEL, there is not M8.

TO POWER SUPPLY (1/2)

FRAME WIRING
POWER SUPPLY (2/2)

BVH-2000(J); #10001-
BVH-2000(U/C); #10001-
BVH-2000PS; #10001-
BVH-2000PM; #10001-

BVH-2180(J); #10001-
BVH-2180(U/C); #10001-
BVH-2180PS; #10001-
BVH-2180PM; #10001-

BVH-2500(J); #10001-
BVH-2500(U/C); #10001-
BVH-2500PS; #10001-
BVH-2500PM; #10001-

C-212

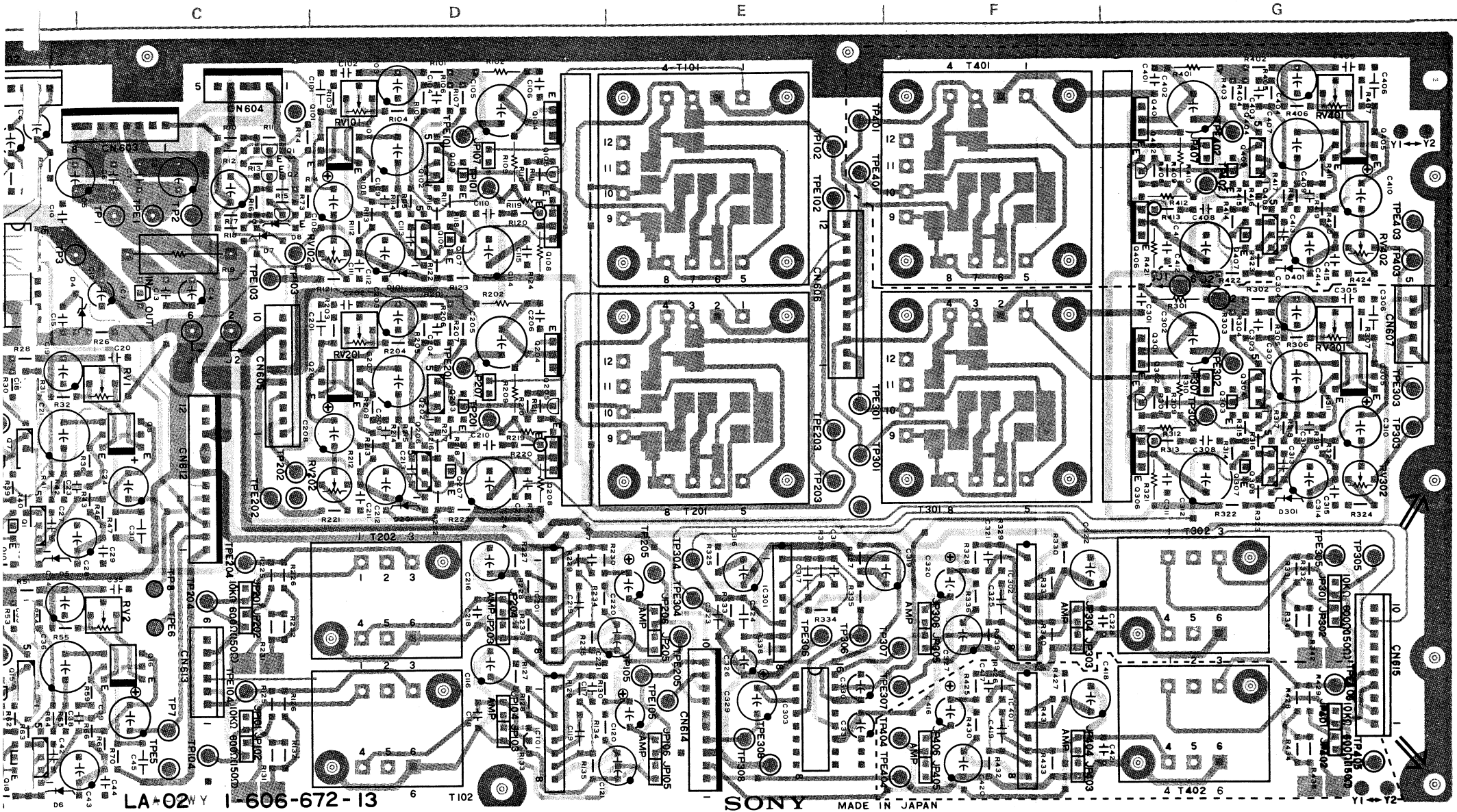
C-211



BVH-2000(J);	#10001-	BVH-2180(J);	#10001-	BVH-2500(J);	#10001-
BVH-2000(U/C);	#10001-	BVH-2180(U/C);	#10001-	BVH-2500(U/C);	#10001-
BVH-2000PS;	#10001-	BVH-2180PS;	#10001-	BVH-2500P;	#10001-
BVH-2000PM;	#10001-	BVH-2180PM;	#10001-		

C-213

C-215



LA-02 (1-606-672-12 & UP)

BVH-2000/PM

BVH-2000PS
(00/10/02/12 MODEL)BVH-2180/PS/PM
BVH-2500/P

CN601M 1A	Q201	2D
CN602M 1B	Q202	2D
CN603M 1C	Q203	2D
CN604M 1C	Q204	2D
CN605M 2C	Q205	2D
CN606M 2E	Q206	3D
CN607M 2G	Q207	3D
CN608M 3A	Q208	3D
CN609M 3A	Q301	2G
CN610M 4A	Q302	2G
CN611M 4A	Q303	2G
CN612M 3C	Q304	2G
CN613M 4C	Q305	2G
CN614M 4E	Q306	3G
CN615M 4G	Q307	3G
	Q308	3G

D1	2A	RB1	2A
D2	2A	RB2	2A
D3	2A		
D4	2B		
D5	3B	RV1	2C
D6	4B	RV2	3C
D7	2C	RV101	1D
D8	2D	RV102	2D
D9	2D	RV201	2D
D201	3D	RV202	3D
D301	3G	RV301	2G
		RV302	3G

IC1	1B	TP1	1C
IC2	2A	TP2	1C
IC3	2A	TP3	2B
IC4	2B	TP4	3B
IC5	2B	TP5	4A
IC6	2B	TP6	4C
IC7	2C	TP7	4C
IC101	4D	TP8	3C
IC201	3D	TP9	3C
IC301	3E	TP10	1D
IC302	3E	TP11	1D
IC303	4E	TP12	1E

JP101	4C	TP13	2C
JP102	4C	TP14	3C
JP103	4D	TP15	4C
JP104	4D	TP16	4C
JP105	4E	TP17	4C
JP106	4E	TP18	4C
JP107	1D	TP19	4C
JP201	3C	TP20	4C
JP202	4C	TP21	4C
JP203	4D	TP22	4C
JP204	4D	TP23	4C
JP205	4E	TP24	4C
JP206	4E	TP25	4C
JP207	2D	TP26	4C
JP208	3G	TP27	4C
JP209	3G	TP28	4C
JP210	3G	TP29	4C
JP211	3G	TP30	4C
JP212	3G	TP31	4C
JP213	3G	TP32	4C
JP214	3G	TP33	4C
JP215	3G	TP34	4C
JP216	3G	TP35	4C
JP217	3G	TP36	4C
JP218	3G	TP37	4C
JP219	3G	TP38	4C

Q1	1C	TP39	4C
Q2	1C	TP40	4C
Q3	1C	TP41	4C
Q4	2B	TP42	4C
Q5	3B	TP43	4C
Q6	3B	TP44	4C
Q7	3B	TP45	4C
Q8	3C	TP46	4C
Q9	3C	TP47	4C
Q10	3B	TP48	4C
Q11	3B	TP49	4C
Q12	4B	TP50	4C
Q13	4B	TP51	4C
Q14	4B	TP52	4C
Q15	4B	TP53	4C
Q16	4C	TP54	4C
Q17	4B	TP55	4C
Q18	4B	TP56	4C
Q19	4B	TP57	4C
Q101	1D	TP58	4C
Q102	1D	TP59	4C
Q103	1D	TP60	4C
Q104	1D	TP61	4C
Q105	1D	TP62	4C
Q106	2D	TP63	4C
Q107	2D	TP64	4C
Q108	2D	TP65	4C

Q1	1C	TP66	4C
Q2	1C	TP67	4C
Q3	1C	TP68	4C
Q4	2B	TP69	4C
Q5	3B	TP70	4C
Q6	3B	TP71	4C
Q7	3B	TP72	4C
Q8	3C	TP73	4C
Q9	3C	TP74	4C
Q10	3B	TP75	4C
Q11	3B	TP76	4C
Q12	4B	TP77	4C
Q13	4B	TP78	4C
Q14	4B	TP79	4C
Q15	4B	TP80	4C
Q16	4C	TP81	4C
Q17	4B	TP82	4C
Q18	4B	TP83	4C
Q19	4B	TP84	4C
Q101	1D	TP85	4C
Q102	1D	TP86	4C
Q103	1D	TP87	4C
Q104	1D	TP88	4C
Q105	1D	TP89	4C
Q106	2D	TP90	4C
Q107	2D	TP91	4C
Q108	2D	TP92	4C

Q1	1C	TP93	4C
Q2	1C	TP94	4C
Q3	1C	TP95	4C
Q4	2B	TP96	4C
Q5	3B	TP97	4C
Q6	3B	TP98	4C
Q7	3B	TP99	4C
Q8	3C	TP100	4C
Q9	3C	TP101	4C
Q10	3B	TP102	4C
Q11	3B	TP103	4C
Q12	4B	TP104	4C
Q13	4B	TP105	4C
Q14	4B	TP106	4C
Q15	4B	TP107	4C
Q16	4C	TP108	4C
Q17	4B	TP109	4C
Q18	4B	TP110	4C
Q19	4B	TP111	4C
Q101	1D	TP112	4C
Q102	1D	TP113	4C
Q103	1D	TP114	4C
Q104	1D	TP115	4C
Q105	1D	TP116	4C
Q106	2D	TP117	4C
Q107	2D	TP118	4C
Q108	2D	TP119	4C

Q1	1C	TP120	4C
Q2	1C	TP121	4C
Q3	1C	TP122	4C
Q4	2B	TP123	4C
Q5	3B	TP124	4C
Q6	3B	TP125	4C
Q7	3B	TP126	4C
Q8	3C	TP127	4C
Q9	3C	TP128	4C
Q10	3B	TP129	4C
Q11	3B	TP130	4C
Q12	4B	TP131	4C
Q13	4B	TP132	4C
Q14	4B	TP133	4C
Q15	4B	TP134	4C
Q16	4C	TP135	4C
Q17	4B	TP136	4C
Q18	4B	TP137	4C
Q19	4B	TP138	4C
Q101	1D	TP139	4C
Q102	1D	TP140	4C
Q103	1D	TP141	4C
Q104	1D	TP142	4C
Q105	1D	TP143	4C
Q106	2D	TP144	4C
Q107	2D	TP145	4C
Q108	2D	TP146	4C

Q1	1C	TP147	4C
Q2	1C	TP148	4C
Q3	1C	TP149	4C
Q4	2B	TP150	4C
Q5	3B	TP151	4C
Q6	3B	TP152	4C
Q7	3B	TP153	4C
Q8	3C	TP154	4C
Q9	3C	TP155	4C
Q10	3B	TP156	4C
Q11	3B	TP157	4C
Q12	4B	TP158	4C
Q13	4B	TP159	4C
Q14	4B	TP160	4C
Q15	4B	TP161	4C
Q16	4C	TP162	4C
Q17	4B	TP163	4C
Q18	4B	TP164	4C
Q19	4B	TP165	4C
Q101	1D	TP166	4C
Q102	1D	TP167	4C
Q103	1D	TP168	4C
Q104	1D	TP169	4C
Q105	1D	TP170	4C
Q106	2D	TP171	4C
Q107	2D	TP172	4C
Q108	2D	TP173	4C

Q1	1C	TP174	4C
Q2	1C	TP175	4C
Q3	1C	TP176	4C
Q4	2B	TP177	4C
Q5	3B	TP178	4C
Q6	3B	TP179	4C
Q7	3B	TP180	4C
Q8	3C	TP181	4C
Q9	3C	TP182	4C
Q10	3B	TP183	4C
Q11	3B	TP184	4C
Q12	4B	TP185	4C
Q13	4B	TP186	4C
Q14	4B	TP187	4C
Q15	4B	TP188	4C
Q16	4C	TP189	4C
Q17	4B	TP190	4C
Q18	4B	TP191	4C
Q19	4B	TP192	4C
Q101	1D	TP193	4C
Q102	1D	TP194	4C
Q103	1D	TP195	4C
Q104	1D	TP196	4C
Q105	1D	TP197	4C
Q106	2D	TP198	4C
Q107	2D	TP199	4C
Q108	2D	TP200	4C

Q1	1C	TP201	4C
Q2	1C	TP202	4C
Q3	1C	TP203	4C
Q4	2B	TP204	4C
Q5	3B	TP205	4C
Q6	3B	TP206	4C
Q7	3B	TP207	4C
Q8	3C	TP208	4C
Q9	3C	TP209	4C
Q10	3B	TP210	4C
Q11	3B	TP211	4C
Q12	4B	TP212	4C
Q13	4B	TP213	4C
Q14	4B	TP214	4C
Q15	4B	TP215	4C
Q16	4C	TP216	4C
Q17	4B	TP217	4C
Q18	4B	TP218	4C
Q19	4B	TP219	4C
Q101	1D	TP220	4C
Q102	1D	TP221	4C
Q103	1D	TP222	4C
Q104	1D	TP223	4C
Q105	1D	TP224	4C
Q106	2D	TP225	4C
Q107	2D	TP226	4C
Q108	2D	TP227	4C

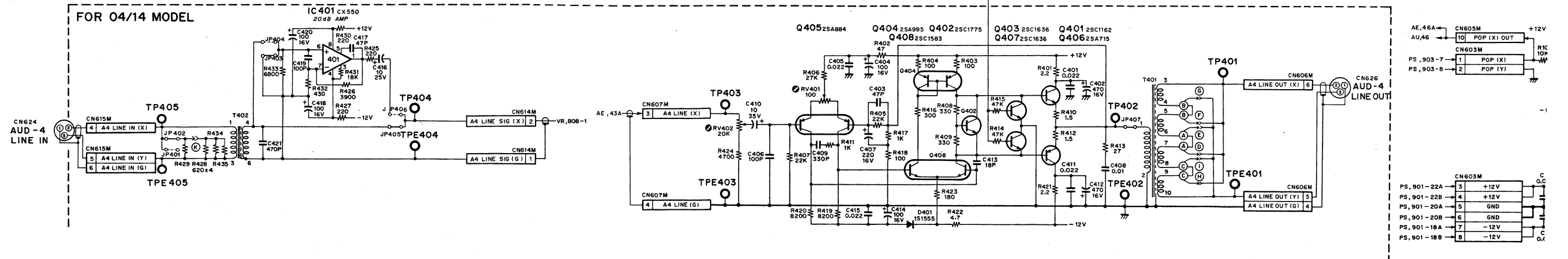
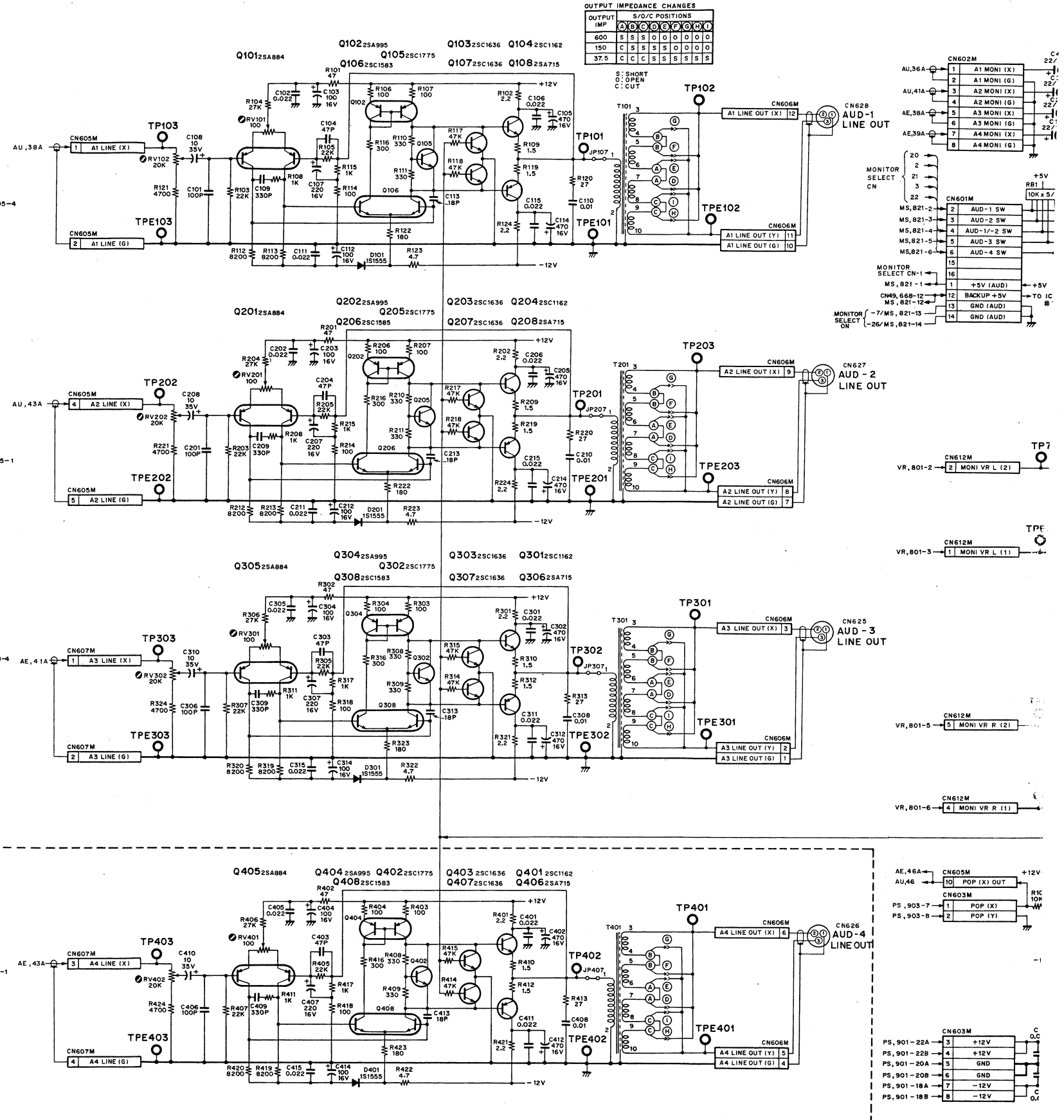
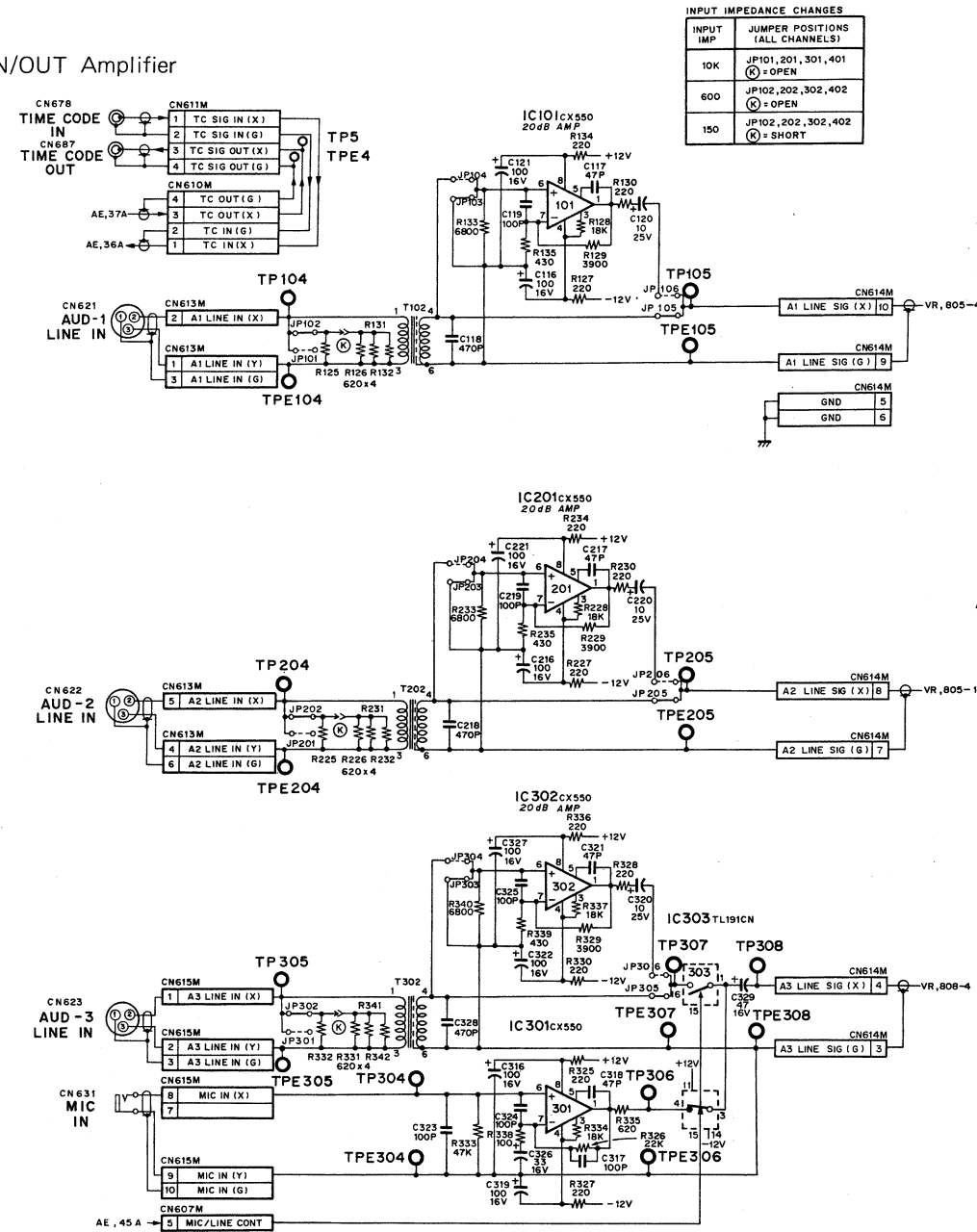
Q1	1C	TP228	4C
Q2	1C	TP229	4C
Q3	1C	TP230	4C
Q4	2B	TP231	4C
Q5	3B	TP232	4C
Q6	3B	TP233	4C
Q7	3B	TP234	4C
Q8	3C	TP235	4C
Q9	3C	TP236	4C
Q10	3B	TP237	4C
Q11	3B	TP238	4C
Q12	4B	TP239	4C
Q13	4B	TP240	4C
Q14	4B	TP241	4C
Q15	4B	TP242	4C
Q16	4C	TP243	4C
Q17	4B	TP244	4C
Q18	4B	TP245	4C
Q19	4B	TP246	4C
Q101	1D	TP247	4C
Q102	1D	TP248	4C
Q103	1D	TP249	4C
Q104	1D	TP250	4C
Q105	1D	TP251	4C
Q106	2D	TP252	4C
Q107	2D	TP253	4C
Q108	2D	TP254	4C

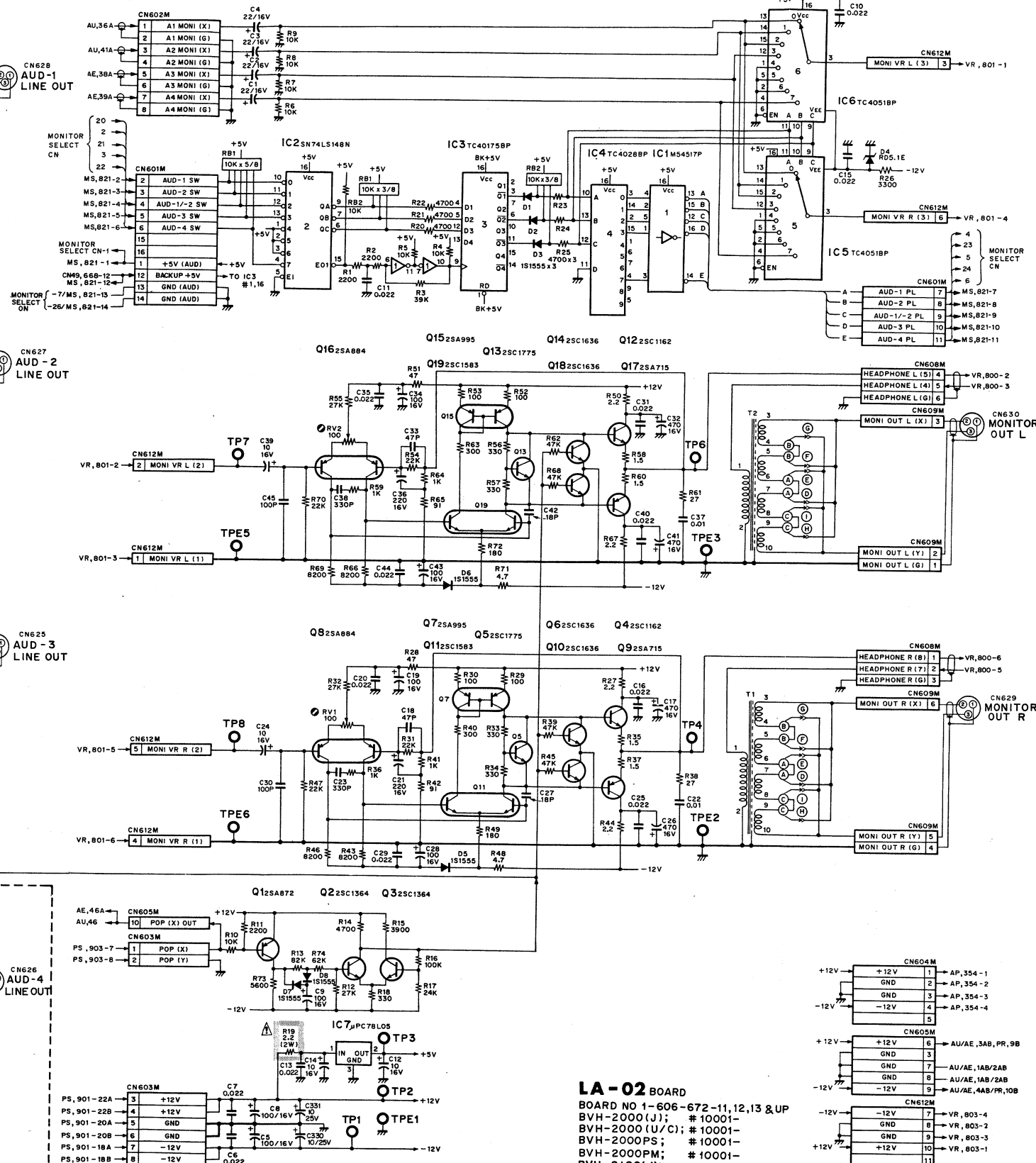
Q1	1C	TP255	4C
Q2	1C	TP256	4C
Q3	1C	TP257	4C
Q4	2B	TP258	4C
Q5	3B	TP259	4C
Q6	3B	TP260	4C
Q7	3B	TP261	4C
Q8	3C	TP262	4C
Q9	3C	TP263	4C
Q10	3B	TP264	4C
Q11	3B	TP265	4C
Q12	4B	TP266	4C
Q13	4B	TP267	4C
Q14	4B	TP268	4C
Q15	4B	TP269	4C
Q16	4C	TP270	4C
Q17	4B	TP271	4C
Q18	4B	TP272	4C
Q19	4B	TP273	4C
Q101	1D	TP274	4C
Q102	1D	TP275	4C
Q103	1D	TP276	4C
Q104	1D	TP277	4C
Q105	1D	TP278	4C
Q106	2D	TP279	4C
Q107	2D	TP280	4C
Q108	2D	TP281	4C

Q1	1C	TP282	4C
Q2	1C	TP283	4C
Q3	1C	TP284	4C
Q4	2B	TP285	4C
Q5	3B	TP286	4C
Q6	3B	TP287	4C
Q7	3B	TP288	4C
Q8	3C	TP289	4C
Q9	3C	TP290	4C
Q10	3B	TP291	4C
Q11	3B	TP292	4C
Q12	4B	TP293	4C
Q13	4B	TP294	4C
Q14	4B	TP295	4C
Q15	4B	TP296	4C
Q16	4C	TP297	4C
Q17	4B	TP298	4C
Q18	4B	TP299	4C
Q19	4B	TP300	4C
Q101	1D	TP301	4C
Q102	1D	TP302	4C
Q103	1D	TP303	4C
Q104	1D	TP304	4C
Q105	1D	TP305	4C

LA-02 BOARD

Audio Line IN/OUT Amplifier





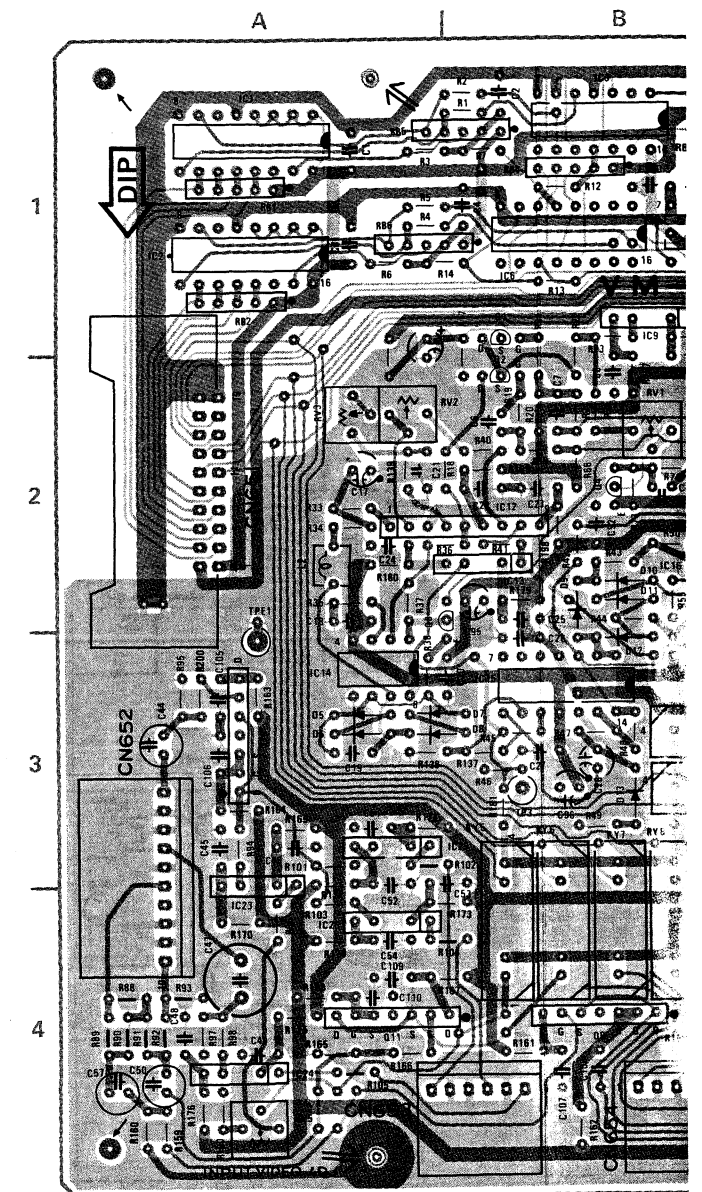
LA-02 BOARD

BOARD NO 1-606-672-11,12,13 & UP

BVH-2000 (J); # 10001-
BVH-2000 (U/C); # 10001-
BVH-2000PS; # 10001-
BVH-2000PM; # 10001-
BVH-2180(J); # 10001-
BVH-2180(U/C); # 10001-
BVH-2180PS; # 10001-
BVH-2180PM; # 10001-
BVH-2500(J); # 10001-
BVH-2500(U/C); # 10001-
BVH-2500P; # 10001-

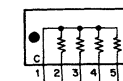
VM-01 BOARD (1-606-658-14)

Component Side



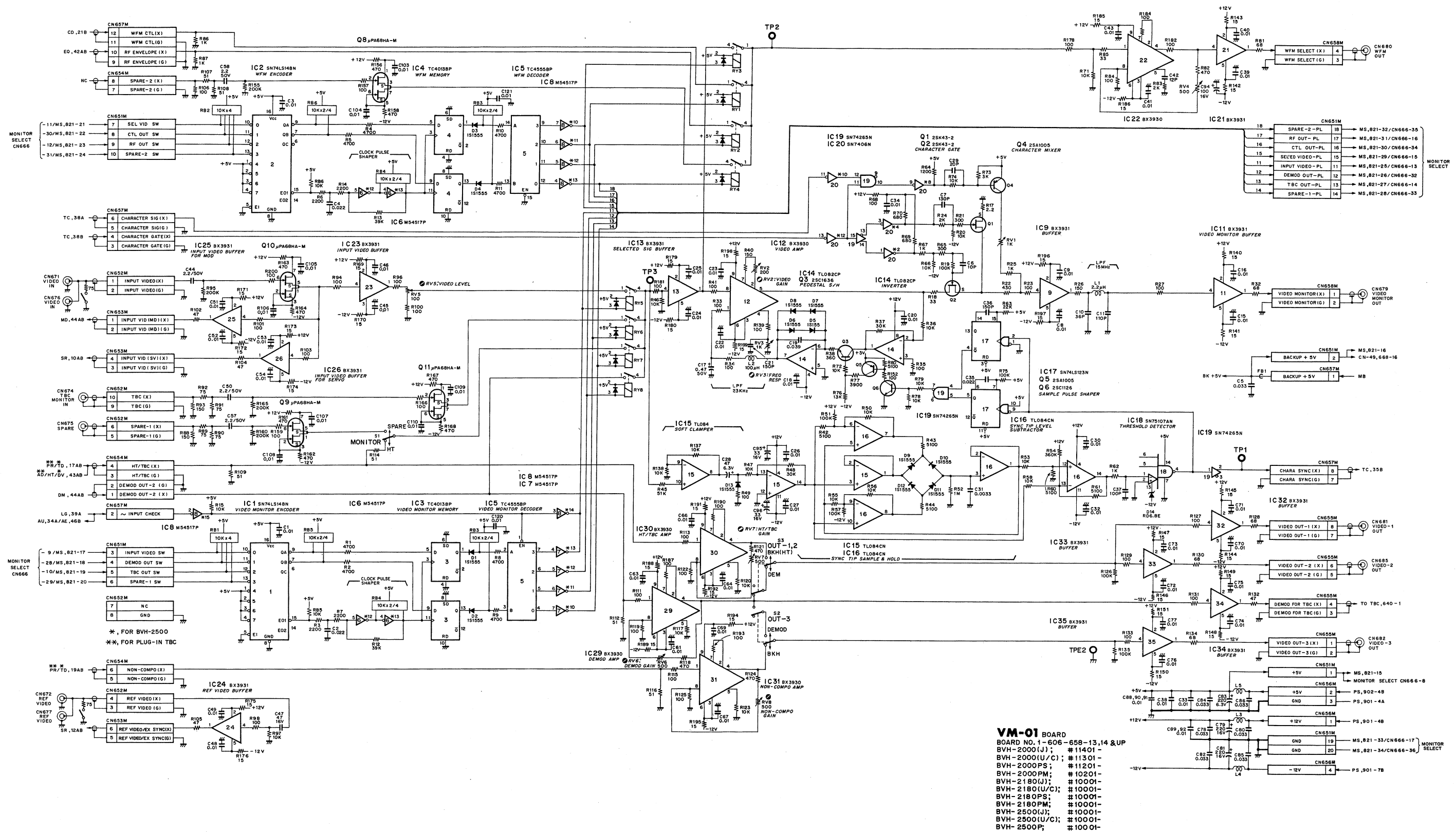
1-606-658-14 COMPONENT SIDE

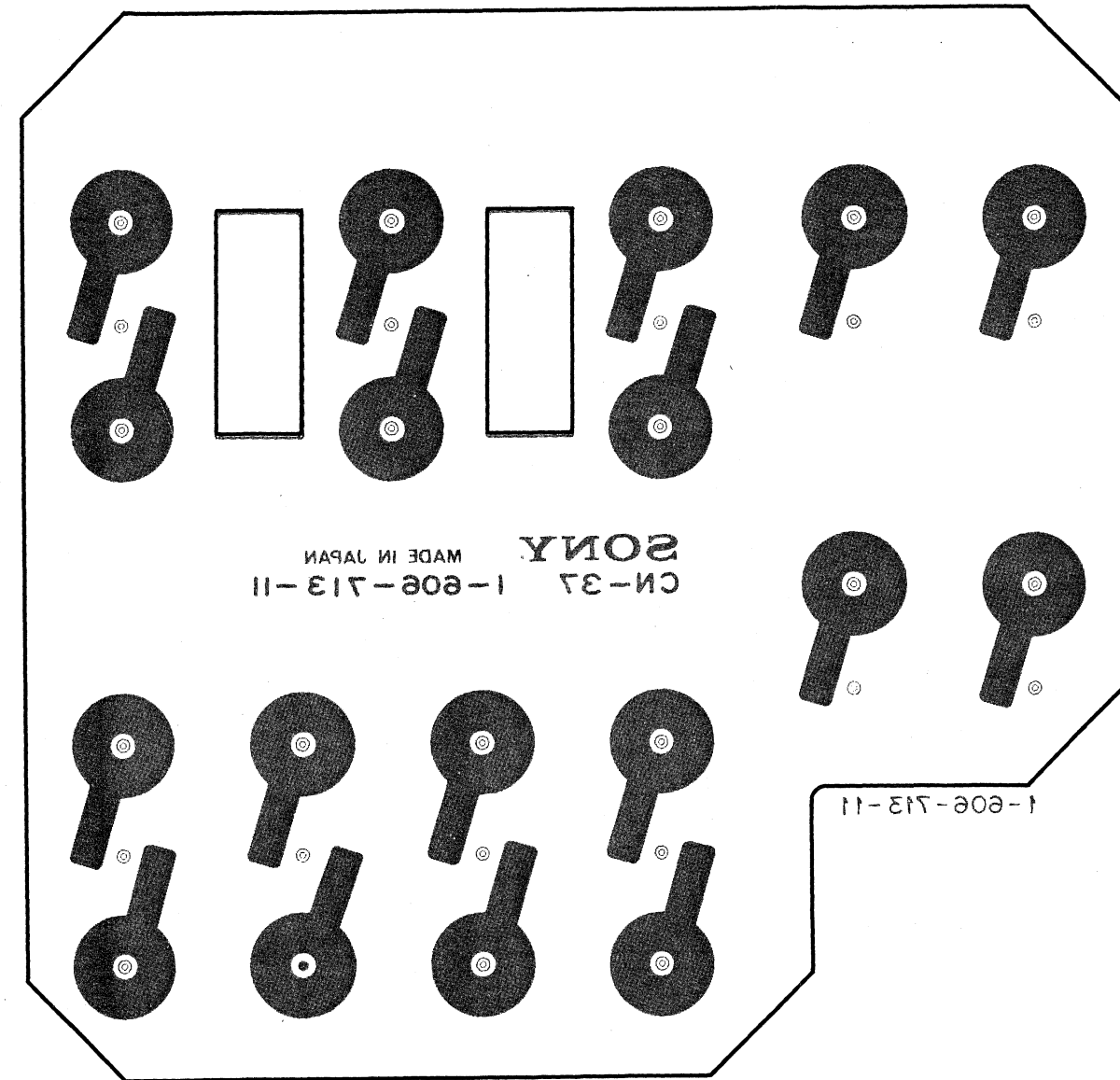
RB1, 2, 3, 4, 5, 6



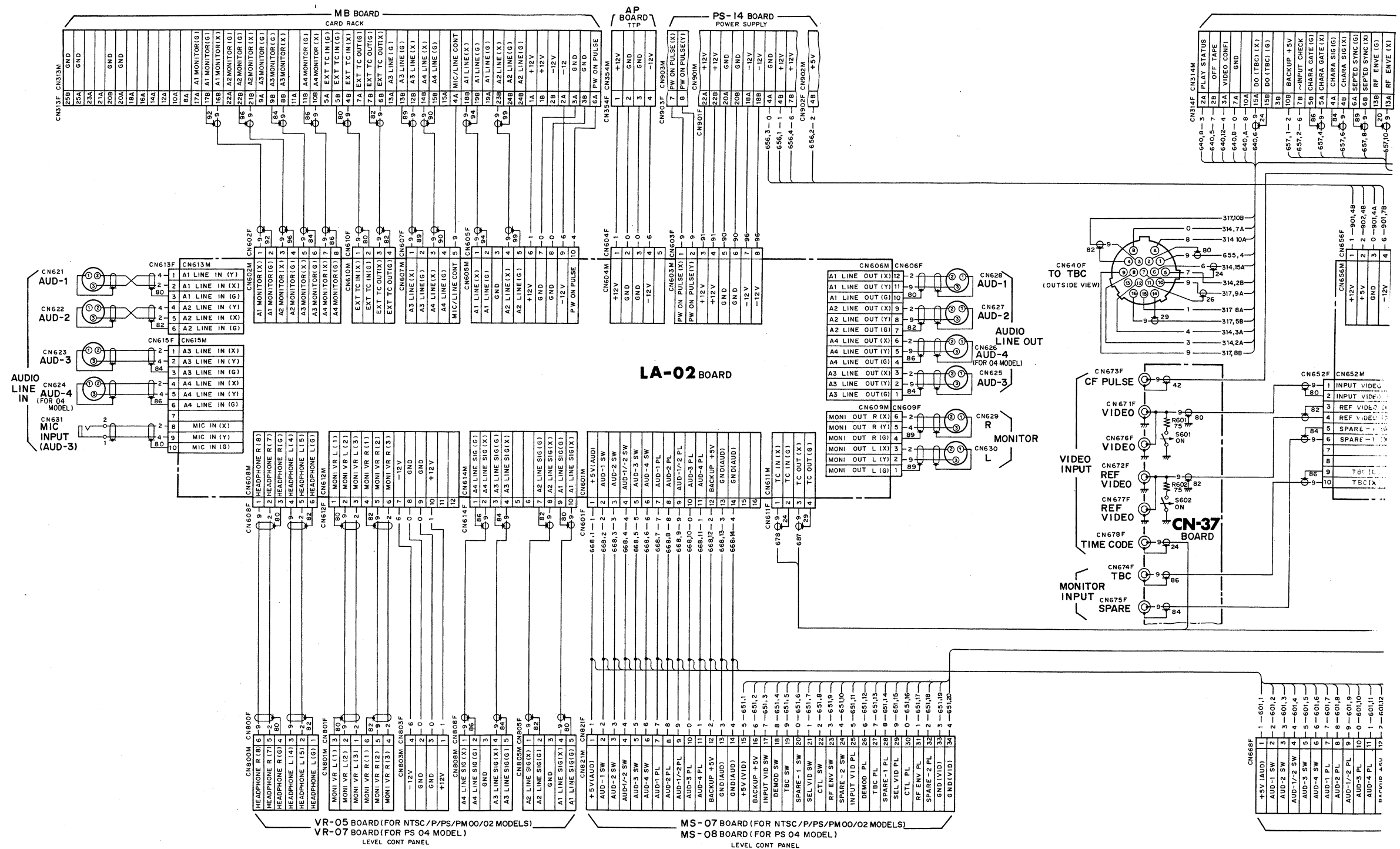
VM-01 BOARD

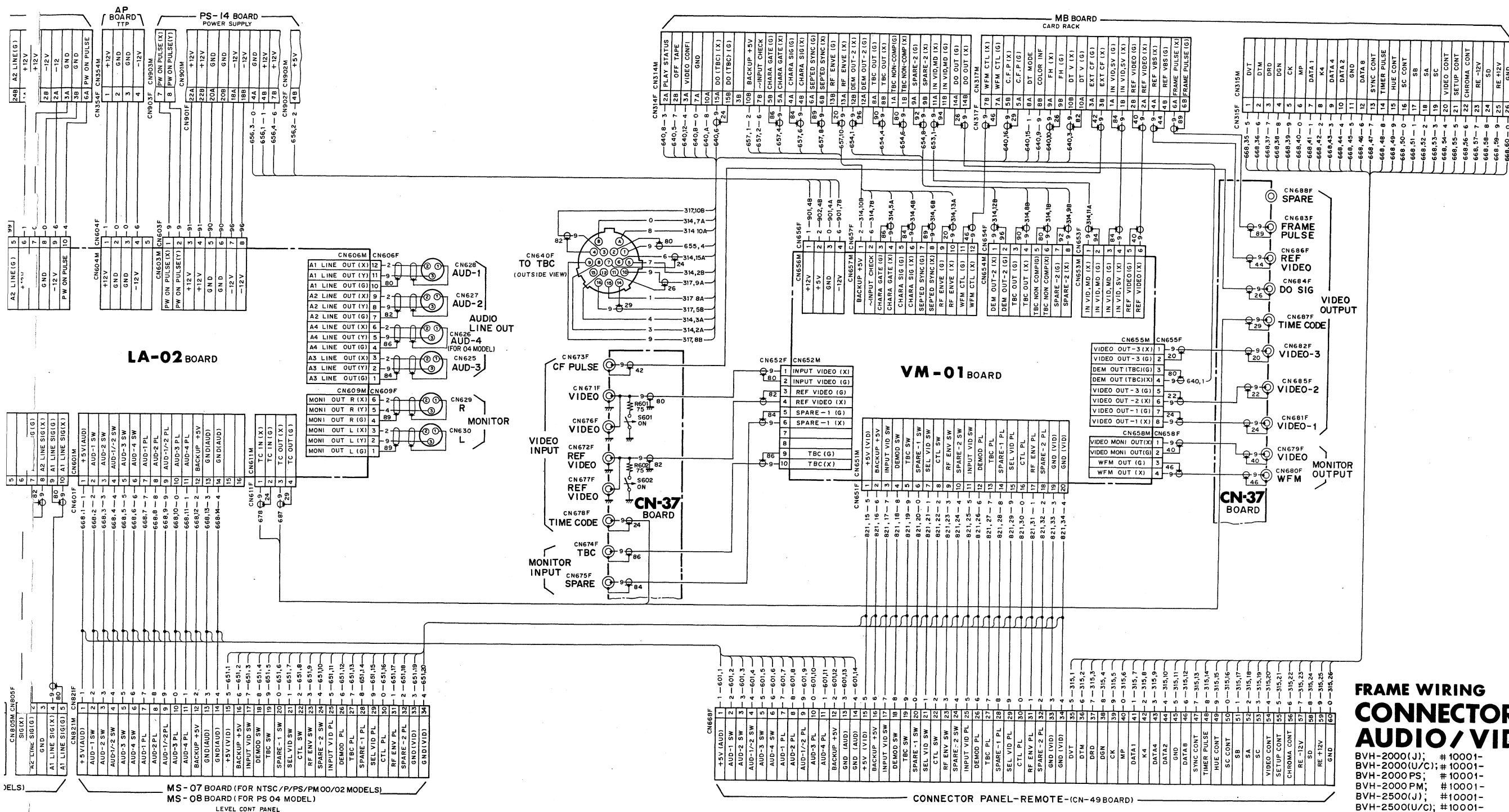
Video Buffer/Monitor Select



**CN-37 BOARD (1-606-713-11)**
Component Side

FRAME WIRING – AUDIO/VIDEO ; CONNECTOR PANEL CN-37 BOARD ; Video Connector Panel



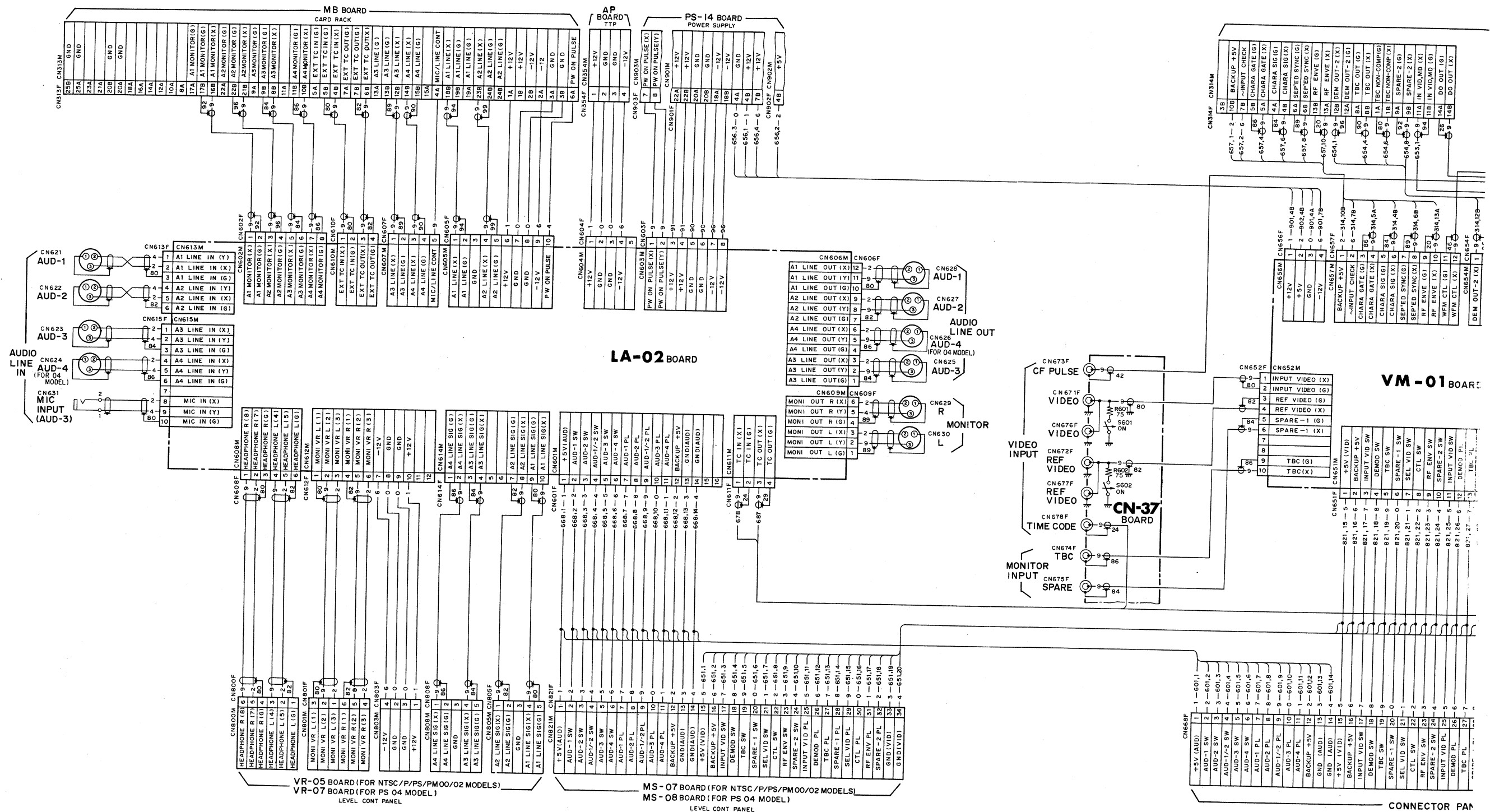


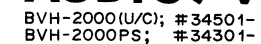
FRAME WIRING CONNECTOR PANEL AUDIO/VIDEO

BVH-2000(J); #10001-
BVH-2000(U/C); #10001-
BVH-2000PS; #10001-
BVH-2000PM; #10001-
BVH-2500(J); #10001-
BVH-2500(U/C); #10001-
BVH-2500P; #10001-
BVH-2180(J); #10001-
BVH-2180(U/C); #10001-
BVH-2180PS; #10001-
BVH-2180PM; #10001-



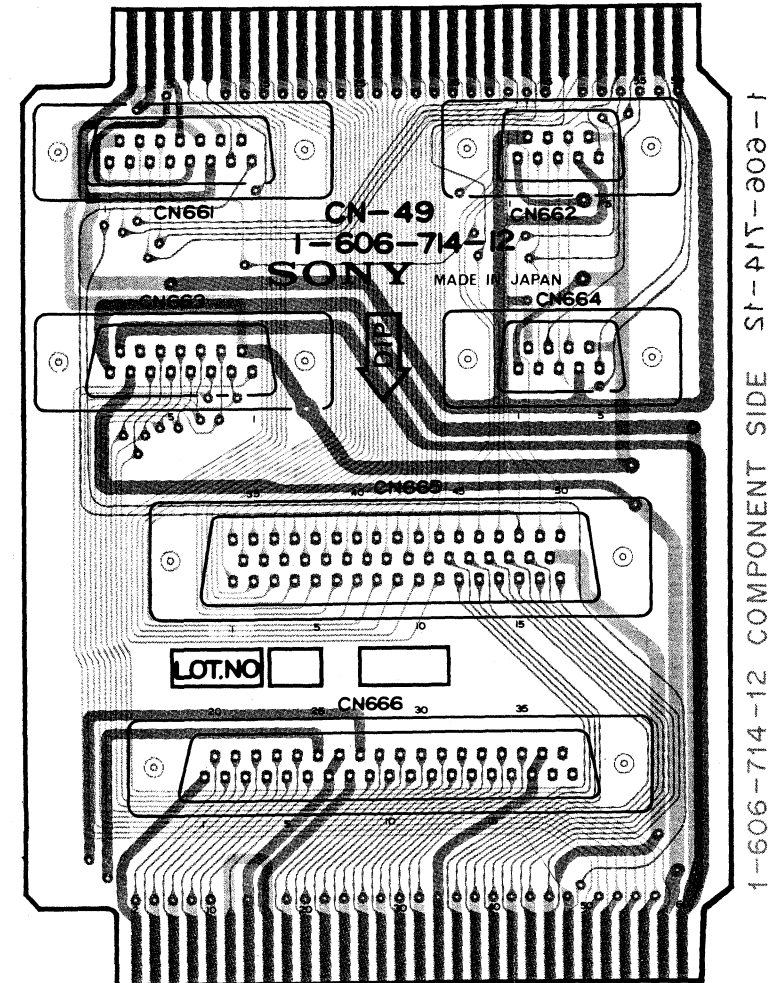
FRAME WIRING – AUDIO/VIDEO ; CONNECTOR PANEL (FOR 10/12/14 MODEL)
CN-37 BOARD ; Video Connector Panel







CN-49 BOARD (1-606-714-12)
Component Side



1-606-714-12 COMPONENT SIDE ST-41T-808-1

(230)

C-231

C-232

BVH-2500/F

C-260

C-261

C-262

BVH-2000/PS/PM
BVH-2180/PS/PM

C-230

231

C-232

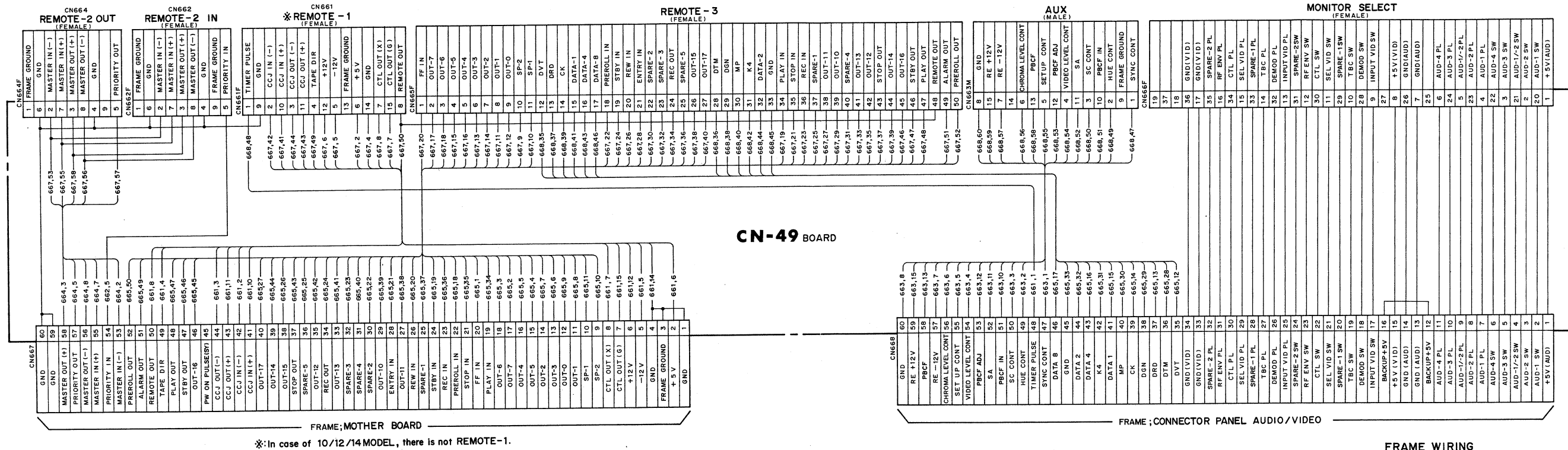
FRAME WIRING – REMOTE ; CONNECTOR PANEL

CN-49 BOARD; Remote Connector Panel

CONNECTOR PANEL CN-49 FRAME WIRING-REMOTE



FRAME WIRING-REMOTE CN-49 CONNECTOR PANEL



※:In case of 10/12/14 MODEL, there is not REMOTE-1.



FRAME WIRING
CONNECTOR PANEL-REMOTE
BVH-2000(J); #10001-
BVH-2000(U/C); #10001-
BVH-2000PS; #10001-
BVH-2000PM; #10001-
BVH-2500(J); #10001-
BVH-2500(U/C); #10001-
BVH-2500P; #10001-
BVH-2180(J); #10001-
BVH-2180(U/C); #10001-
BVH-2180PS; #10001-
BVH-2180PM; #10001-

SECTION D

REPLACEABLE PARTS AND OPTIONAL FIXTURE

補修用部品注意事項

(1) 安全重要部品

分解図、電気部品表中、印及びで囲まれた部品は安全性を維持するために重要な部品である。従ってこれらの部品を交換するときには必ず指定の部品と交換すること。

(2) 部品の共通化

ソニーから供給される部品はセットに実装されているものと異なることがある。これは部品の共通化、改良等によるものである。

分解図や電気部品表には現時点での共通化された部品が記載されている。

(3) 部品の変更に関する情報はSECTION E CHANGED PARTSの項を参照のこと。

(4) 部品の在庫

部品表中、()で示されている部品は交換頻度が低い部品であるので在庫していないことがあり、納期が長くなることがある。

(5) コンデンサー、インダクター、抵抗の単位

回路図、分解図、電気部品表中、特に明記したものを除き、下記の単位は省略されている。


コンデンサー ; μF

インダクター ; μH

抵抗 ; Ω

Notes on Repair Parts

(1) Safety Related Components Warning

Components identified by shading marked with  on the exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear in this manual or in service bulletins and service manual supplements published by Sony.

(2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the part which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".

This manual's exploded views and electrical spare parts list are indicating the parts numbers of "the standardized genuine parts at present".

(3) Regarding engineering parts changes in our engineering department, refer to SECTION E CHANGED PARTS.

(4) Stock of Parts

Parts marked with () on the spare parts list are not normally required for routine service work. Orders for parts marked with () will be processed, but allow for additional delivery time.

(5) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified:

Capacitors: μF

Inductors: μH

Resistors: ohm

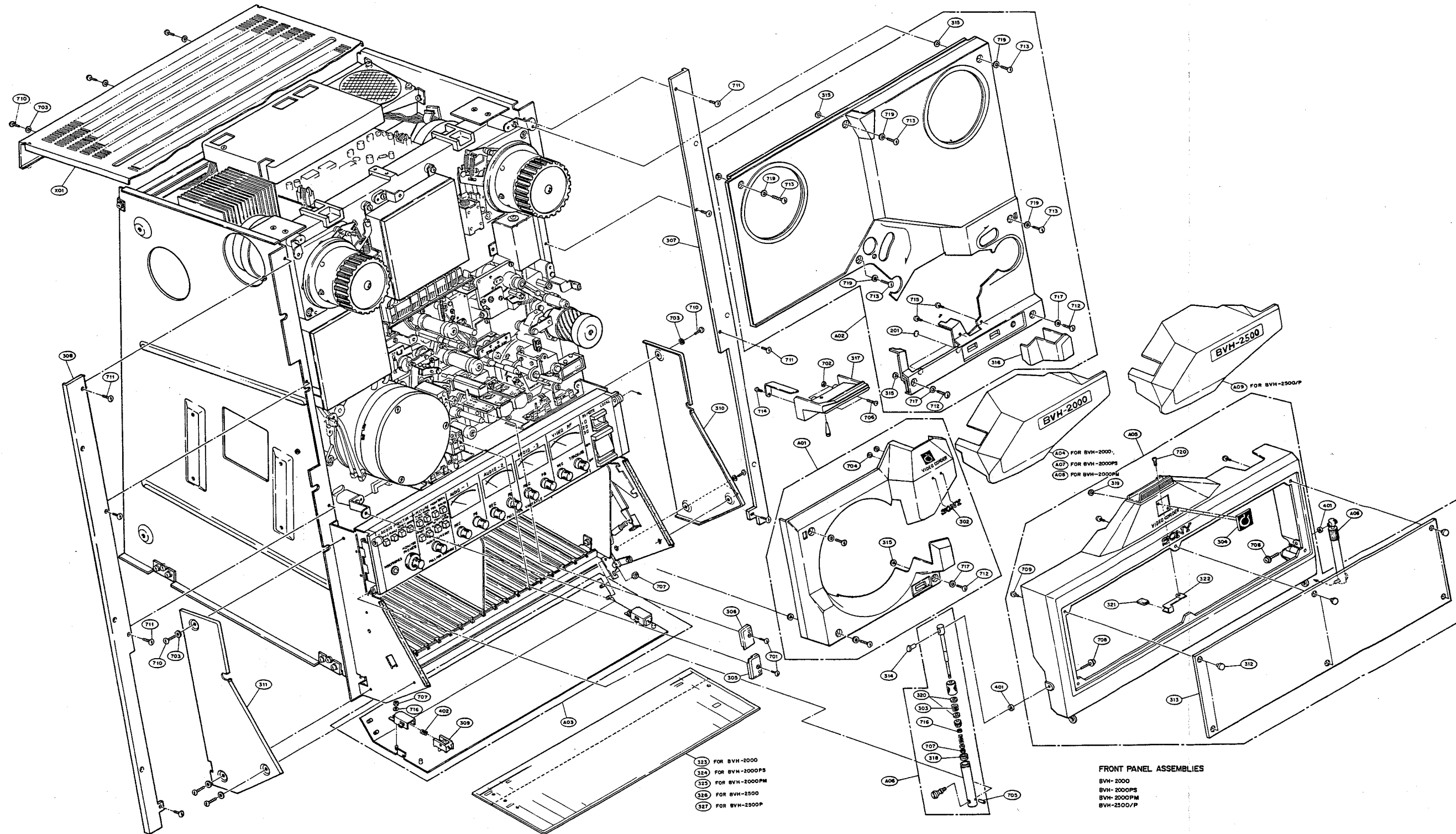
FRONT PANEL ASSY

FRONT PANEL ASSEMBLIES (BVH-2000/2500/2700)

No.	Part No.	Description	No.	Part No.	Description
A01 ()	A-6004-108-A	PANEL ASSY, DRUM	319	3-840-411-00	PUSH NUT 2.4
A02 ()	A-6004-127-C	PANEL ASSY, REEL	320	3-701-441-21	WASHER, M4, POLY
A03 ()	A-6004-110-C	PANEL(1) ASSY, PCB INDICATION	321 ()	3-673-784-00	CAP
A04 ()	A-6004-112-B	COVER ASSY, HEAD (for BVH-2000)	322 ()	3-680-318-00	COVER, STOPPER
()	A-6004-151-A	COVER ASSY(NS), HEAD (for BVH-2000 10, 12)	323	3-680-378-01	LABEL(4), PC BOARD (for BVH-2000)
A05 ()	A-6004-113-B	COVER ASSY (for BVH-2000/PS/PM) (for BVH-2500/P)	324	3-680-379-01	LABEL(5), PC BOARD (for BVH-2000PS)
A06 ()	A-6004-114-C	DAMPER ASSY	325	3-674-694-00	LABEL(3), PC BOARD (for BVH-2000PM)
A07 ()	A-6004-118-A	COVER ASSY, HEAD (for BVH-2000PS)	326	3-680-356-01	LABEL, PC BOARD(1) (for BVH-2500)
()	A-6004-150-A	COVER(PS) ASSY, HEAD (for BVH-2000PS 10, 12, 14)	327	3-680-376-01	LABEL(2), PC BOARD (for BVH-2500P)
A08 ()	A-6004-120-A	COVER ASSY, HEAD (for BVH-2000PM)	328	3-693-018-01	LABEL(HS), PC BOARD (for BVH-2700)
A09 ()	A-6004-128-A	COVER ASSY, HEAD (for BVH-2500)	329 ()	3-673-946-11	GLASS, WINDOW (for BVH-2700)
()	A-6004-138-A	COVER ASSY, HEAD (for BVH-2500P)	401 ()	4-324-412-00	SPACER
A10 ()	A-6004-148-A	COVER ASSY, HEAD (for BVH-2700)	402	4-864-521-00	SPRING COMPRESSION
A11 ()	A-6004-149-A	COVER ASSY (for BVH-2700)	701	7-621-912-30	SCREW, B2.6x6
X01 ()	X-3673-646-3	LID ASSY, UPPER	702	7-623-923-01	WASHER, M2.6, POLY
201	2-523-667-00	CUSHION	703	7-623-954-51	WASHER, M3, FIBER
302 ()	3-566-707-00	EMBLEM, SONY	704	7-624-200-11	PUSH NUT 1.5
303	3-575-368-00	SPRING, COMPRESSION	705	7-626-301-31	SPRING PIN 2x10
304	3-657-977-00	EMBLEM, OMEGA	706	7-682-350-04	SCREW, RK3x12
305 ()	3-673-869-00	COVER(T), GUIDE	707	7-684-023-04	NUT, M3
306 ()	3-673-870-00	COVER(S), GUIDE	708	7-686-531-01	SCREW, PSW3x14
307 ()	3-673-881-00	SASH(RIGHT), ORNAMENTAL	709	7-686-623-04	SCREW, B3x5
308 ()	3-673-882-00	SASH(LEFT), ORNAMENTAL	710	7-686-624-09	SCREW, B3x6
309 ()	3-673-883-00	KNOB LOCK	711	7-686-626-04	SCREW, B3x10
310 ()	3-673-917-00	PLATE(R), ORNAMENTAL	712	7-686-639-04	SCREW, B4x16, WHITE
311 ()	3-673-918-00	PLATE(L), ORNAMENTAL	713	7-686-639-09	SCREW, B4x16, BLACK
312 ()	3-673-944-00	NUT, M3, ORNAMENTAL	714	7-685-133-14	SCREW, BTP2.6x6
313 ()	3-673-946-00	GLASS, WINDOW (for BVH-2000/PS/PM) (for BVH-2500/P)	715	7-687-614-14	SCREW, BTP3x8
314	3-673-965-00	SHAFT, FITTING, DAMPER	716	7-688-003-11	WASHER, M3, MIDDLE
315 ()	3-673-968-00	STOPPER, SCREW	717	7-688-004-13	WASEHR, M4, MIDDLE, WHITE
316 ()	3-673-971-02	COVER, CAPSTAN	718	7-688-004-11	WASHER, M4, MIDDLE
317 ()	3-673-985-00	COVER, FRONT SHIELD	719	7-688-004-12	WASHER, M4, MIDDLE, BLACK
318 ()	3-815-122-00	BUSHING, RUBBER	720	7-682-349-04	SCREW, RK3x10

FRONT PANEL ASSY

FRONT PANEL ASSY



FRONT PANEL ASSY

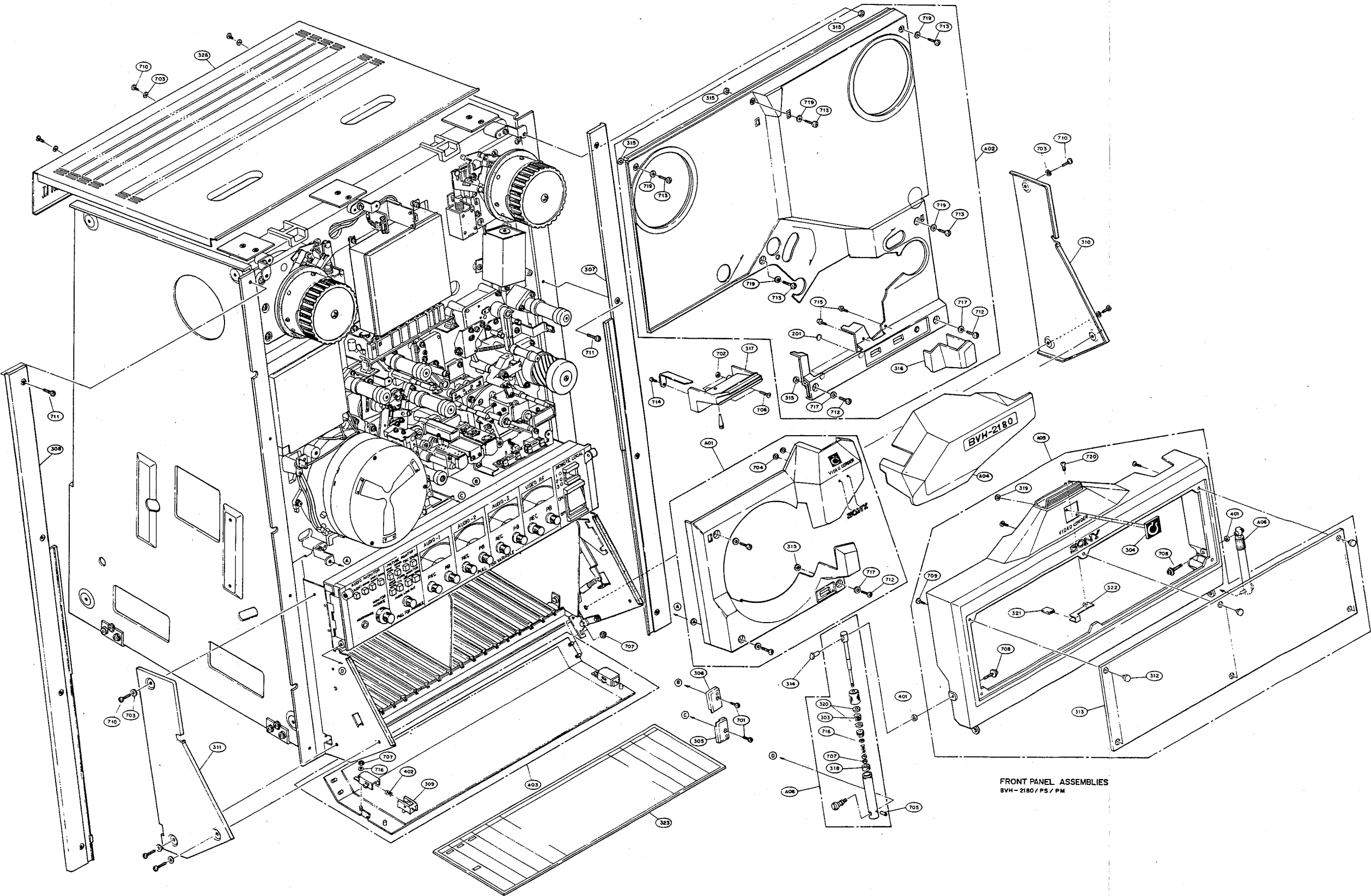
FRONT PANEL ASSEMBLIES (BVH-2180)

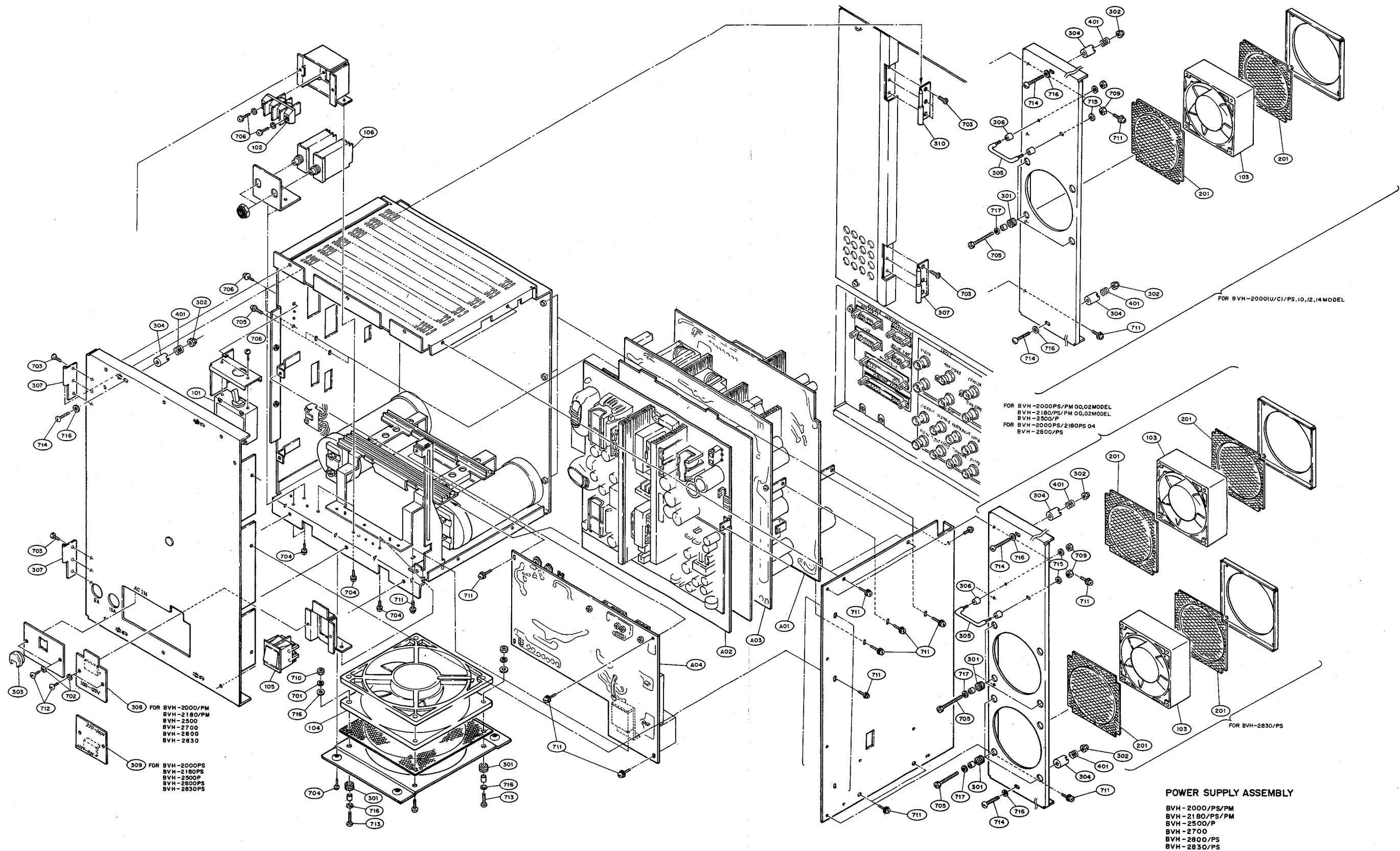
No.	Part No.	Description	No.	Part No.	Description
A01 ()	A-6004-108-A	PANEL ASSY,DRUM	326 ()	3-690-559-01	LID,UPPER
A02 ()	A-6004-146-B	PANEL ASSY,REEL	401 ()	4-324-412-00	SPACER
A03 ()	A-6004-110-C	PANEL(1) ASSY,PCB INDICATION	402	4-864-521-00	SPRING COMPRESSION
A04 ()	A-6004-142-A	COVER ASSY,HEAD (for BVH-2180)	701	7-621-912-30	SCREW,B2.6x6
()	A-6004-143-A	COVER ASSY,HEAD (for BVH-2180PM)	702	7-623-923-01	WASHER,M2.6,POLY
()	A-6004-144-A	COVER ASSY,HEAD (for BVH-2180PS)	703	7-623-954-51	WASHER,M3,FIBER
A05 ()	A-6004-145-A	COVER ASSY	704	7-624-200-11	PUSH NUT 2
A06 ()	A-6004-114-C	DAMPER ASSY	705	7-626-301-31	SPRING PIN 2x10
201	2-523-667-00	CUSHION	706	7-682-350-04	SCREW,RK3x12
303	3-575-368-00	SPRING,COMPRESSION	707	7-684-023-04	NUT,M3
304	3-657-977-00	EMBLEM,OMEGA	708	7-686-531-01	SCREW,PSW3x14
305 ()	3-673-869-00	COVER(T),GUIDE	709	7-686-623-04	SCREW,B3x5
306 ()	3-673-870-00	COVER(S),GUIDE	710	7-686-624-09	SCREW,B3x6
307 ()	3-690-518-01	SASH(RIGHT),ORNAMENTAL	711	7-686-625-04	SCREW,B3x8
308 ()	3-690-519-01	SASH(LEFT),ORNAMENTAL	712	7-686-639-04	SCREW,B4x16,WHITE
309 ()	3-673-883-00	KNOB LOCK	713	7-686-639-09	SCREW,B4x16,BLACK
310 ()	3-673-917-00	PLATE(R),ORNAMENTAL	714	7-687-603-14	SCREW,BTP2.6x6
311 ()	3-673-918-00	PLATE(L),ORNAMENTAL	715	7-687-614-14	SCREW,BTP3x8
312 ()	3-673-944-00	NUT,M3,ORNAMENTAL	716	7-688-003-11	WASHER,M3,MIDDLE
313 ()	3-673-946-00	GLASS,WINDOW	717	7-688-004-11	WASHER,M4,MIDDLE,WHITE
314	3-673-965-00	SHAFT,FITTING,DAMPER	718	7-688-004-11	WASHER,M4,MIDDLE
315 ()	3-673-968-00	STOPPER,SCREW	719	7-688-004-12	WASHER,M4,MIDDLE,BLACK
316 ()	3-673-971-02	COVER,CAPSTAN	720	7-682-349-04	SCREW,RK3x10
317 ()	3-673-985-00	COVER,FRONT SHIELD			
318 ()	3-815-122-00	BUSHING,RUBBER			
319	3-840-411-00	PUSH NUT 2.4			
320	3-701-441-21	WASHER,M4,POLY			
321 ()	3-673-784-00	CAP			
322 ()	3-680-318-00	COVER,STOPPER			
323	3-680-378-01	LABEL(4),PC BOARD (for BVH-2180)			
324	3-680-379-01	LABEL(5),PC BOARD (for BVH-2180PS)			
325	3-674-694-02	LABEL(3),PC BOARD (for BVH-2180PM)			

FRONT PANEL ASSY

FRONT PANEL ASSY

BVH-2180





POWER SUPPLY ASSEMBLY (BVH-2000/2180/2500/2700/2800/2830)

No.	Part No.	Description	No.	Part No.	Description
A01	() A-4925-002-B	COMPLETE PCB, FV-01	705	7-682-570-09	SCREW, B4x40
A02	() A-4925-004-B	COMPLETE PCB, FV-02	706	7-682-648-01	SCREW, +PS3x8
A03	() A-4925-003-B	COMPLETE PCB, VV-01	707	7-682-651-01	SCREW, PS3x14
A04	() A-4925-001-A	COMPLETE PCB, AC-39	708	7-682-948-01	SCREW, +PSW3x8
101	1-532-653-00	CIRCUIT PROTECTOR, 50mA/65V	709	7-684-023-04	NUT, M3
102	() 1-536-712-00	TERMINAL BOARD, 2P	710	7-684-024-04	NUT, M4
103	1-541-327-11	FAN, DC 12V	711	7-686-528-01	SCREW, PSW3x8
104	1-541-203-00	FAN, DC 12V	712	7-686-625-09	SCREW, B3x8
105	1-554-145-00	SWITCH, ROCKER	713	7-686-639-04	SCREW, B4x16
106	1-532-655-00	CIRCUIT BREAKER	714	7-686-640-09	SCREW, B4x20
201	() 2-252-609-00	COVER, FAN	715	7-688-003-11	WASHER, M3, MIDDLE
301	() 3-630-837-00	BUSHING	716	7-688-004-12	WASHER, M4, MIDDLE, BLACK
302	() 3-680-316-00	NUT, M4, NYLON	717	7-688-005-02	WASHER, M5, SMALL, BLACK
303	3-649-728-00	STOPPER, CORD			
304	() 3-651-849-00	SPACER, PANEL			
305	() 3-657-653-00	ARM, GUARD			
306	() 3-657-654-00	RING, ORNAMENTAL			
307	() 3-673-774-00	HINGE			
308	() 3-674-641-00	COVER, VS (for BVH-2000/PM) (for BVH-2180/PM) (for BVH-2500) (for BVH-2700) (for BVH-2800) (for BVH-2830)			
309	() 3-674-642-00	COVER, VS (for BVH-2000PS) (for BVH-2180PS) (for BVH-2500P) (for BVH-2800PS) (for BVH-2830PS)			
310	() 3-673-774-11	HINGE			
401	() 3-303-890-01	SPRING, COMPRESSION			
701	7-623-210-22	SPRING WASHER, M4			
702	7-623-954-51	WASHER, M3, FIBER			
703	7-686-624-09	SCREW, B3x6			
704	7-682-547-09	SCREW, +B3x6			

CONNECTOR PANEL ASSY

CONNECTOR PANEL ASSEMBLY (BVH-2000/2180/2500)

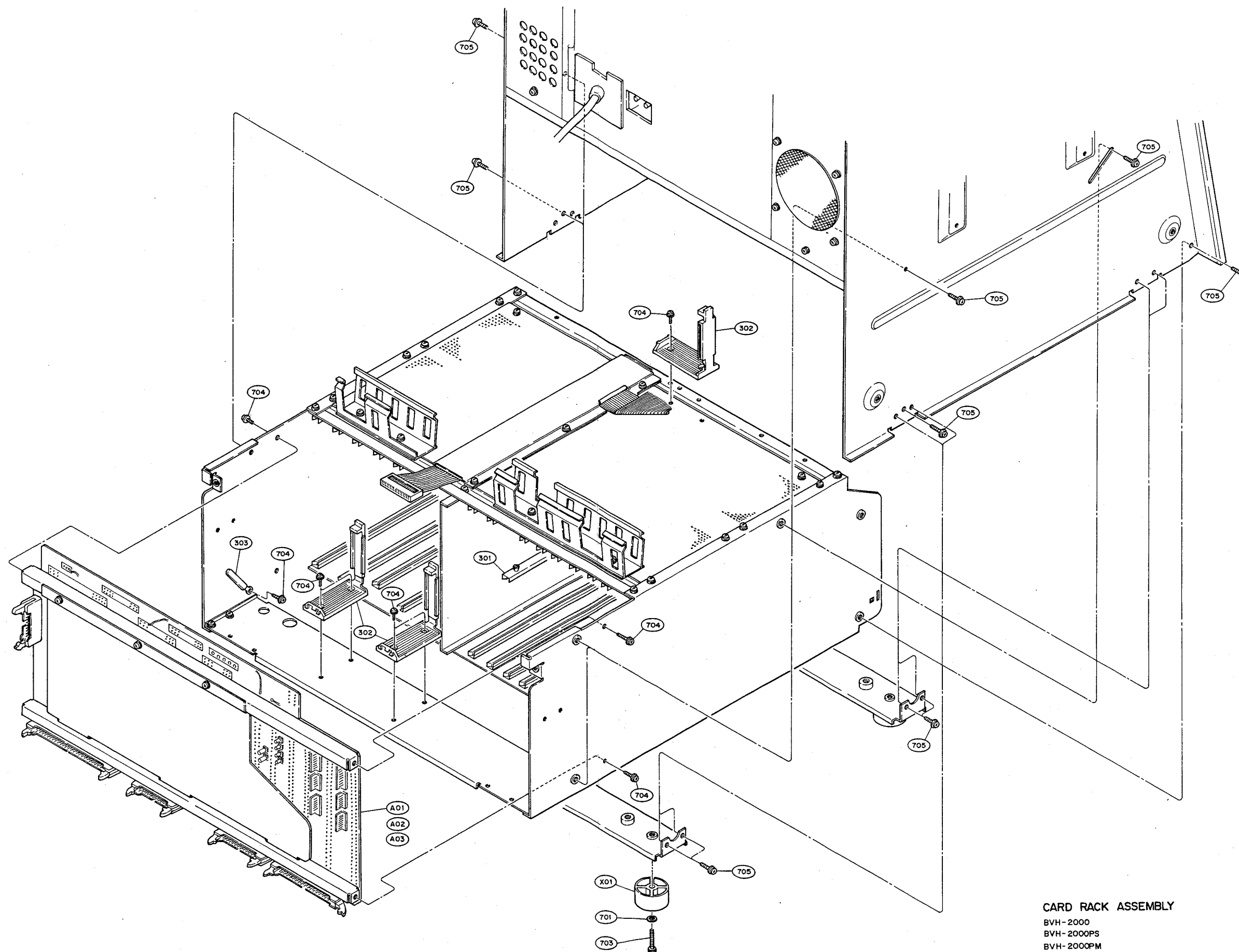
No.	Part No.	Description	No.	Part No.	Description
A01 ()	A-6011-062-A	COMPLETE PCB, VM-01	703	7-621-912-38	SCREW, B2.6x6
A02 ()	A-6013-043-A	COMPLETE PCB, LA-02	704	7-682-247-09	SCREW, K3x6
		(for BVH-2000/PS/PM 00,02)	705	7-684-023-04	NUT, M3
		(for BVH-2180/PS/PM 00,02)	706	7-686-527-01	SCREW, PSW3x6
		(for BVH-2500/P)	707	7-686-625-09	SCREW, B3x8
A03 ()	A-6025-082-A	COMPLETE PCB, CN-49	708	7-686-640-09	SCREW, B4x20
		(for NTSC, PS, PM, 00,02,04 MODEL)	709	7-688-004-12	WASHER, M4, MIDDLE, BLACK
A04 ()	A-6013-057-A	COMPLETE PCB, LA-02			
		(for BVH-2000PS/2180PS 04)			
A05 ()	A-6025-095-A	COMPLETE PCB, CN-49			
		(for 10,12,14 MODEL)			
101	1-507-552-21	JACK, PHONE			
102	1-509-176-51	RECEPTACLE 3P, MALE			
103	1-509-184-51	RECEPTACLE 3P, FEMALE			
104	1-509-471-00	RECEP., 18P, FEMALE			
105	1-552-078-00	SWITCH, SLIDE			
106	1-560-769-00	RECEP., D-SUB, 15-PIN, MALE			
107	1-561-655-00	RECEP., D-SUB, 9-PIN, FEMALE			
108	1-561-781-21	RECEP., BNC			
109	1-561-897-00	RECEP., D-SUB, 15-PIN, FEMALE			
110	1-561-898-00	RECEP., D-SUB, 37-PIN, FEMALE			
111	1-561-899-00	RECEP., D-SUB, 50-PIN, FEMALE			
112 ()	1-606-713-00	CN-37 BOARD			
		(WITHOUT COMPONENT)			
201	2-090-229-00	NUT, PLATE			
		(for NTSC, PS, PM, 00,02,04 MODEL)			
301	3-680-316-00	NUT, M4, NYLON			
302 ()	3-651-849-00	SPACER, PANEL			
303	3-651-875-00	HINGE, FRONT			
304 ()	3-673-859-04	LABEL, CONNECTOR			
		(FOR BVH-2000/PS/PM 00,02)			
		BVH-2180/PS/PM 00,02			
		BVH-2500/P			
		(FOR BVH-2000PS/2180PS 04)			
305 ()	3-673-910-00	SCREW, CONNECTOR			
306 ()	3-701-822-00	HOLDER, WIRE			
307 ()	3-703-150-11	CLAMP			
308 ()	3-693-059-02	LABEL(NS) CONNECTOR			
		(for BVH-2000(U/C)PS 10,12,14)			
401	4-812-134-11	RIVET, NYLON			
402 ()	3-303-890-01	SPRING, COMPRESSION			
701	7-621-559-20	SCREW, K2.6x4			
702	7-621-559-30	SCREW, K2.6x5			

CONNECTOR PANEL ASSY



CARD RACK ASSY

CARD RACK ASSY



D-11

CARD RACK ASSEMBLY

BVH-2000
BVH-2000PS
BVH-2000PM
BVH-2500/P

D-12

BVH-2000/2500
(J, U/C, PS, PM)

CARD RACK ASSY

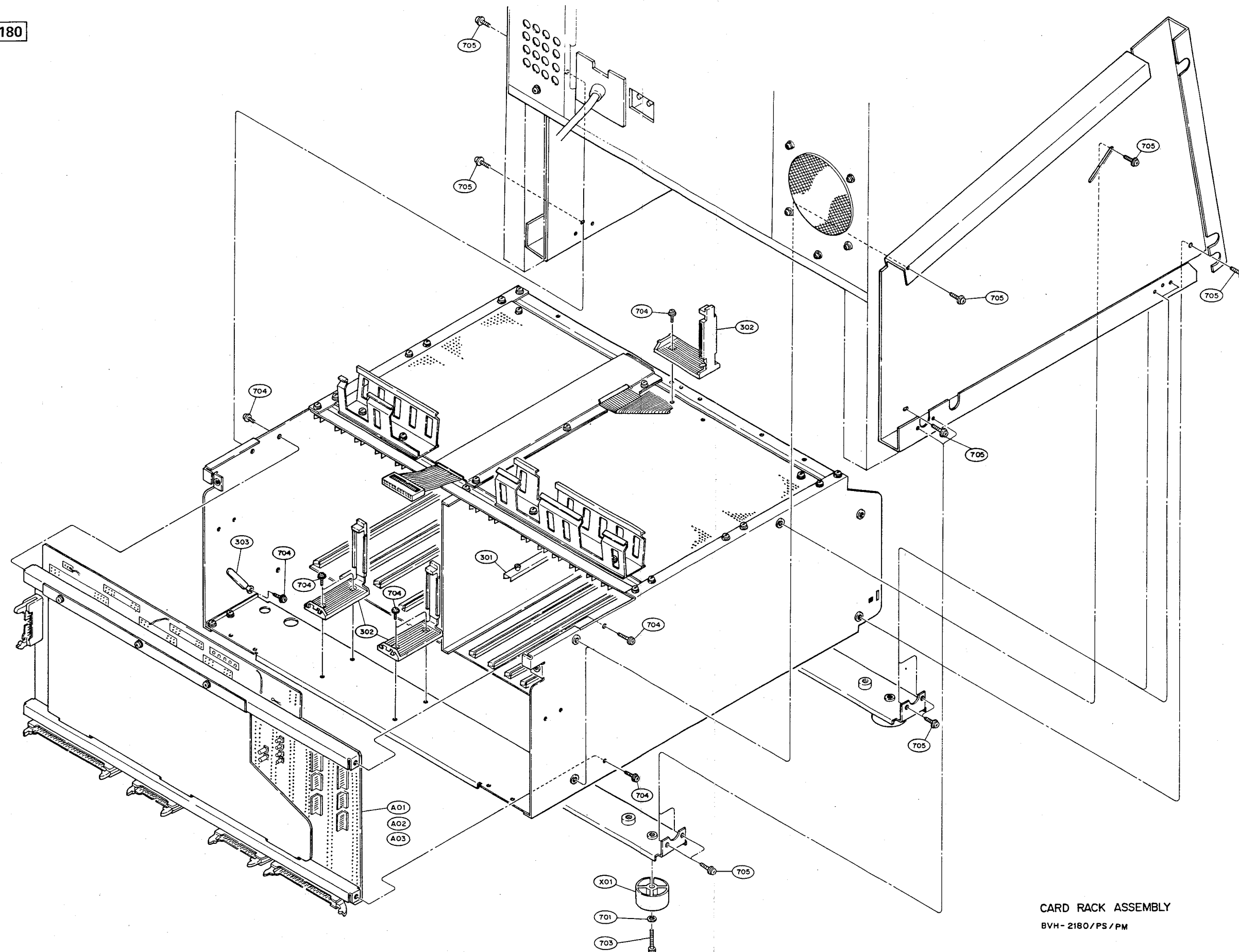
CARD RACK ASSEMBLY (BVH-2000/2180/2500/2700)

No.	Part No.	Description
A01 ()	A-6025-092-A	COMPLETE PCB,MB-14A (for BVH-2000/PS/PM) (for BVH-2180/PS/PM)
A02 ()	A-6025-088-A	COMPLETE PCB,MB-60 (for BVH-2500/P)
A03 ()	A-6025-094-A	COMPLETE PCB,MB-74 (for BVH-2700)
X01	X-4836-202-X	FOOT ASSY
301 ()	3-673-676-31	RAIL,PC BOARD GUIDE
302	3-673-796-02	CLAMP,FLAT CABLE
303 ()	3-701-822-00	HOLDER,WIRE
701	7-623-210-22	SPRING WASHER,M4
703	7-683-425-04	SCREW,C4x20
704	7-686-527-01	SCREW,PSW3x6
705	7-686-548-01	SCREW,PSW4x8

CARD RACK ASSY

CARD RACK ASSY

BVH-2180



D-11(a)

CARD RACK ASSEMBLY
BVH- 2180/PS/PM

D-12(a)

BVH-2180
(J, U/C, PS, PM)

CARD RACK ASSEMBLY (BVH-2000/2180/2500/2700)

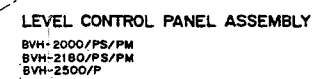
No.	Part No.	Description
A01 ()	A-6025-092-A	COMPLETE PCB,MB-14A (for BVH-2000/PS/PM) (for BVH-2180/PS/PM)
A02 ()	A-6025-088-A	COMPLETE PCB,MB-60 (for BVH-2500/P)
A03 ()	A-6025-094-A	COMPLETE PCB,MB-74 (for BVH-2700)
X01	X-4836-202-X	FOOT ASSY
301 ()	3-673-676-31	RAIL,PC BOARD GUIDE
302	3-673-796-02	CLAMP,FLAT CABLE
303 ()	3-701-822-00	HOLDER,WIRE
701	7-623-210-22	SPRING WASHER,M4
703	7-683-425-04	SCREW,C4x20
704	7-686-527-01	SCREW,PSW3x6
705	7-686-548-01	SCREW,PSW4x8

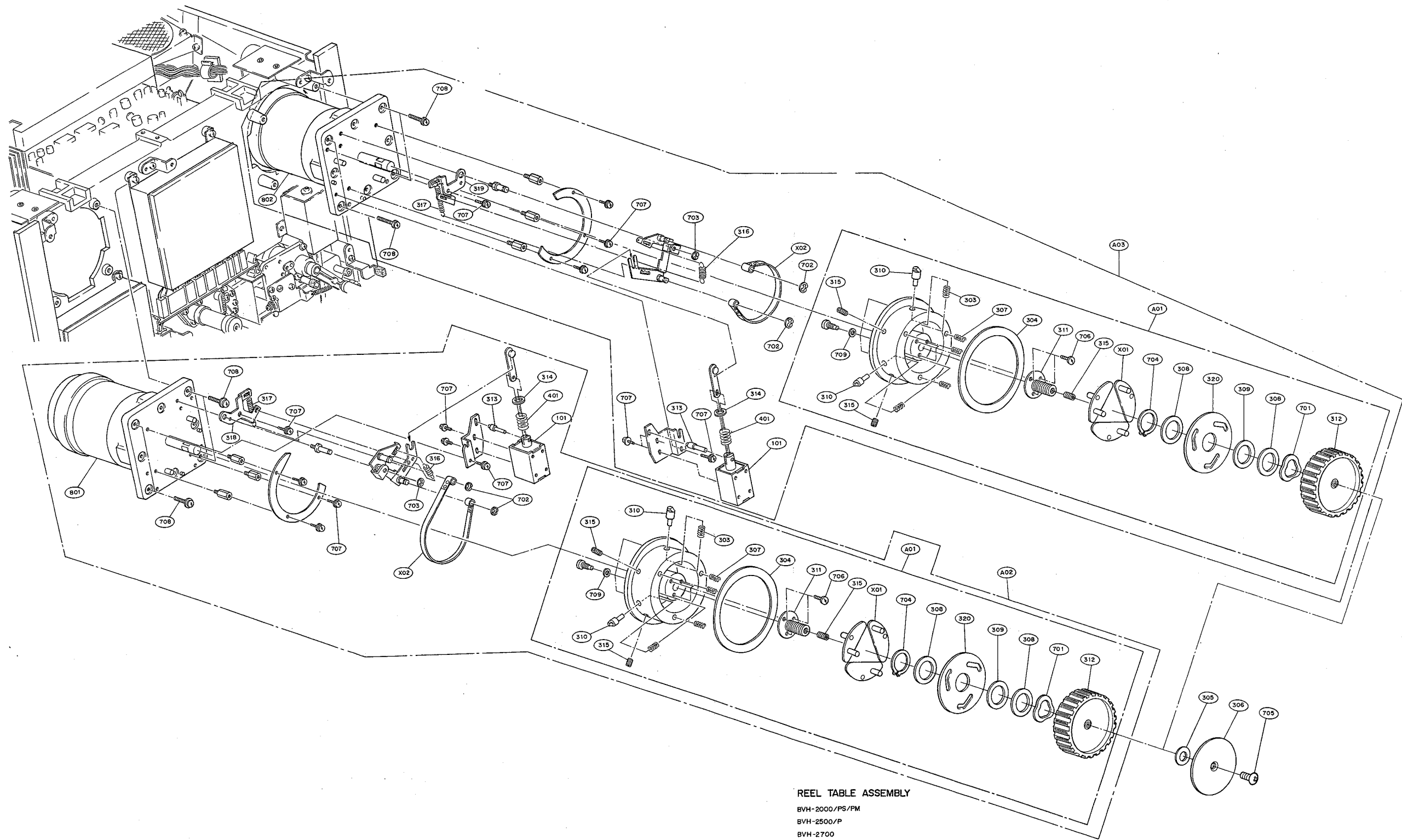
LEVEL CONTROL PANEL

LEVEL CONTROL PANEL ASSEMBLY (BVH-2000/2180/2500)

No.	Part No.	Description	No.	Part No.	Description
A01 ()	A-6013-042-A	COMPLETE PCB,VR-05 (for BVH-2000/PS/PM 00,02) (for BVH-2180/PS/PM 00,02) (for BVH-2500/P)	305	3-688-028-00	KNOB(SMALL),LEVER SWITCH
A02 ()	A-6013-056-A	COMPLETE PCB,VR-07 (for BVH-2000PS/2180PS 04)	306 ()	3-673-653-00	MIRROR
X01	X-3668-056-0	KNOB(W) ASSY,CONTROL	307 ()	3-673-769-00	GUARD,SWITCH
X02	X-3673-635-0	KNOB(1) ASSY,CONTROL	308 ()	3-673-784-00	CAP
X03 ()	X-3673-638-0	SASH(RIGHT) ASSY,METER	309 ()	3-673-813-00	HOLDER,METER
X04 ()	X-3673-639-0	SASH(LEFT) ASSY,METER	310 ()	3-673-842-00	GUARD,POWER SWITCH
X05	X-3673-650-0	KNOB(2) ASSY,CONTROL	311 ()	3-673-886-00	PANEL,METER (for BVH-2000/PS/PM 00,02) (for BVH-2180/PS/PM 00,02) (for BVH-2500/P)
X06 ()	X-3673-657-0	SUPPORT(RIGHT) ASSY,ROLLER	312 ()	3-673-922-00	HINGE
X07 ()	X-3673-658-0	SUPPORT(RIGHT) ASSY,STAY	313 ()	3-673-957-00	PIN,HINGE
X08 ()	X-3673-659-0	SUPPORT(LEFT) ASSY,ROLLER	314 ()	3-674-658-00	PANEL,METER (for BVH-2000PS/2180PS 04)
X09 ()	X-3673-660-0	SUPPORT(LEFT) ASSY,STAY	315 ()	3-674-691-00	COVER,LED
X10 ()	X-3673-661-0	ARM(RIGHT) ASSY,CAM	701	7-624-105-04	STOP RING,E2.3
X11 ()	X-3673-662-0	ARM(LEFT) ASSY,CAM	702	7-624-106-04	STOP RING,E3
X12 ()	X-3673-663-0	SUPPORT(RIGHT) ASSY,PANEL	703	7-682-247-09	SCREW,K3x6
X13 ()	X-3673-664-0	SUPPORT(LEFT) ASSY,PANEL	704	7-684-023-04	NUT,M3
X14 ()	X-3673-667-0	HINGE,MAIN,RIGHT ASSY	705	7-685-233-14	SCREW,K2.6x6
X15 ()	X-3673-668-0	HINGE,MAIN,LEFT ASSY	706	7-686-450-01	SCREW,PS3x12
101	1-520-450-12	METER,VU	707	7-686-527-01	SCREW,PSW3x6
102	1-520-451-12	METER,VIDEO/RF	708	7-686-528-01	SCREW,PSW3x8
103	1-554-066-00	SWITCH,ROCKER			
104 ()	1-606-709-00	MS-07 BOARD (WITHOUT COMPONENT, for BVH-2000/PS/PM 00,02 for BVH-2180/PS/PM 00,02 for BVH-2500/P)			
105 ()	1-606-711-00	ML-02 BOARD (WITHOUT COMPONENT, for BVH-2000/PS/PM 00,02 for BVH-2180/PS/PM 00,02 for BVH-2500/P)			
106 ()	1-606-710-00	MS-08 BOARD (WITHOUT COMPONENT, for BVH-2000PS/2180PS 04)			
107 ()	1-606-712-00	ML-03 BOARD (WITHOUT COMPONENT, for BVH-2000PS/2180PS 04)			
201 ()	2-252-615-00	CUSHION,SWITCH			
202 ()	2-252-623-02	PLATE,SWITCH,LEVER			
301	3-483-026-00	BRACKET,MOTOR THRUST			
302 ()	3-483-026-31	BRACKET,MOTER THRUST			
303	3-643-383-00	COVER,LAMP			
304	3-644-718-00	SPRING COMPRESSION			

LEVEL CONTROL PANEL



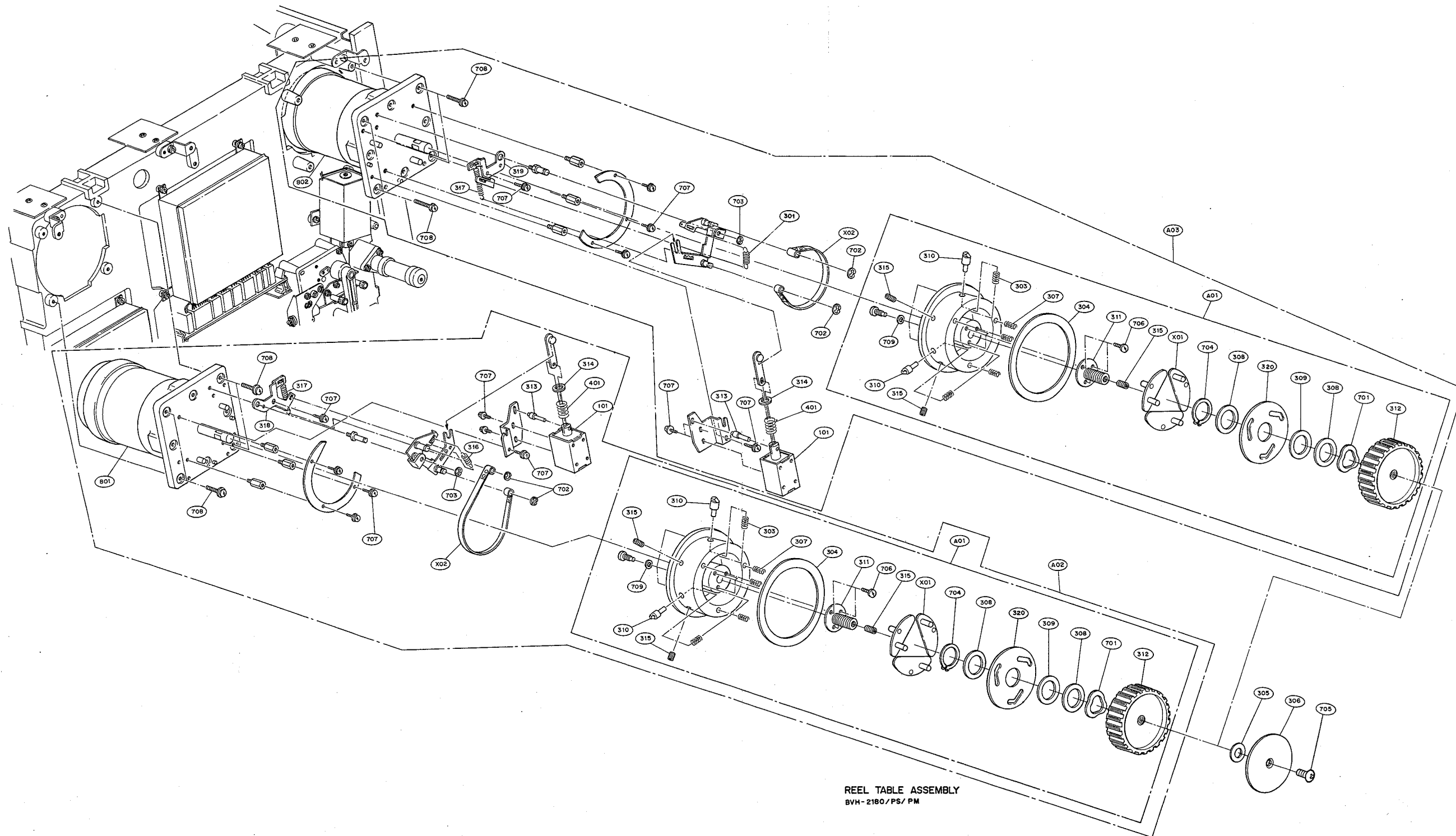


REEL TABLE

REEL TABLE ASSEMBLY (BVH-2000/2500/2700)

No.	Part No.	Description
A01 ()	A-6039-016-B	TABLE ASSY, REEL
A02	A-6039-020-A	MOTOR ASSY, SUPPLY REEL
A03	A-6039-021-A	MOTOR ASSY, TAKE-UP REEL
X01 ()	X-3651-315-0	CLAW ASSY, REEL
X02	X-3673-601-0	BAND ASSY, BRAKE
101	1-454-304-00	SOLENOID, 12V, 15/180 OHM
303	3-558-760-00	SPRING, COMPRESSION
304 ()	3-651-371-02	SHEET, REEL
305 ()	3-651-372-00	WASHER, REEL
306 ()	3-651-373-00	COVER
307 ()	3-651-375-00	SPRING, COMPRESSION
308 ()	3-651-377-00	SHEET, FRICTION
309 ()	3-651-378-00	SHEET, FRICTION ADJUSTMENT
310 ()	3-673-680-00	PIN, REEL STOPPER
311 ()	3-673-779-00	SHAFT, MAIN
312 ()	3-673-780-00	KNOB, REEL RETAINER
313 ()	3-673-810-00	PIN, SOLENOID
314	3-701-447-21	WASHER, M10, POLY
315	3-701-512-01	SET SCREW, 4x8
316	3-447-073-00	SPRING, TENSION
317	3-639-371-00	SPRING, TENSION
318 ()	3-680-319-01	PLATE(S), STOPPER
319 ()	3-680-320-01	PLATE(T), STOPPER
320 ()	3-673-711-02	CAM, REEL
401	4-836-109-00	SPRING, COMPRESSION
701	7-623-711-07	WASHER, M20, WAVE
702	7-624-105-04	STOP RING, E2, 3
703	7-624-106-04	STOP RING, E3
704	7-624-197-71	STOP RING, C20
705	7-682-388-04	SCREW, RK6x12
706	7-686-448-01	SCREW, PS3x8
707	7-686-527-01	SCREW, PSW3x8
708	7-686-552-01	SCREW, PSW4x16
709	7-688-003-01	WASHER, M3, SMALL
801	8-838-028-01	MOTOR, S REEL, BHF-2200A
802	8-838-028-11	MOTOR, T REEL, BHF-2200B

BVH-2180



D-17(a)

D-18(a)

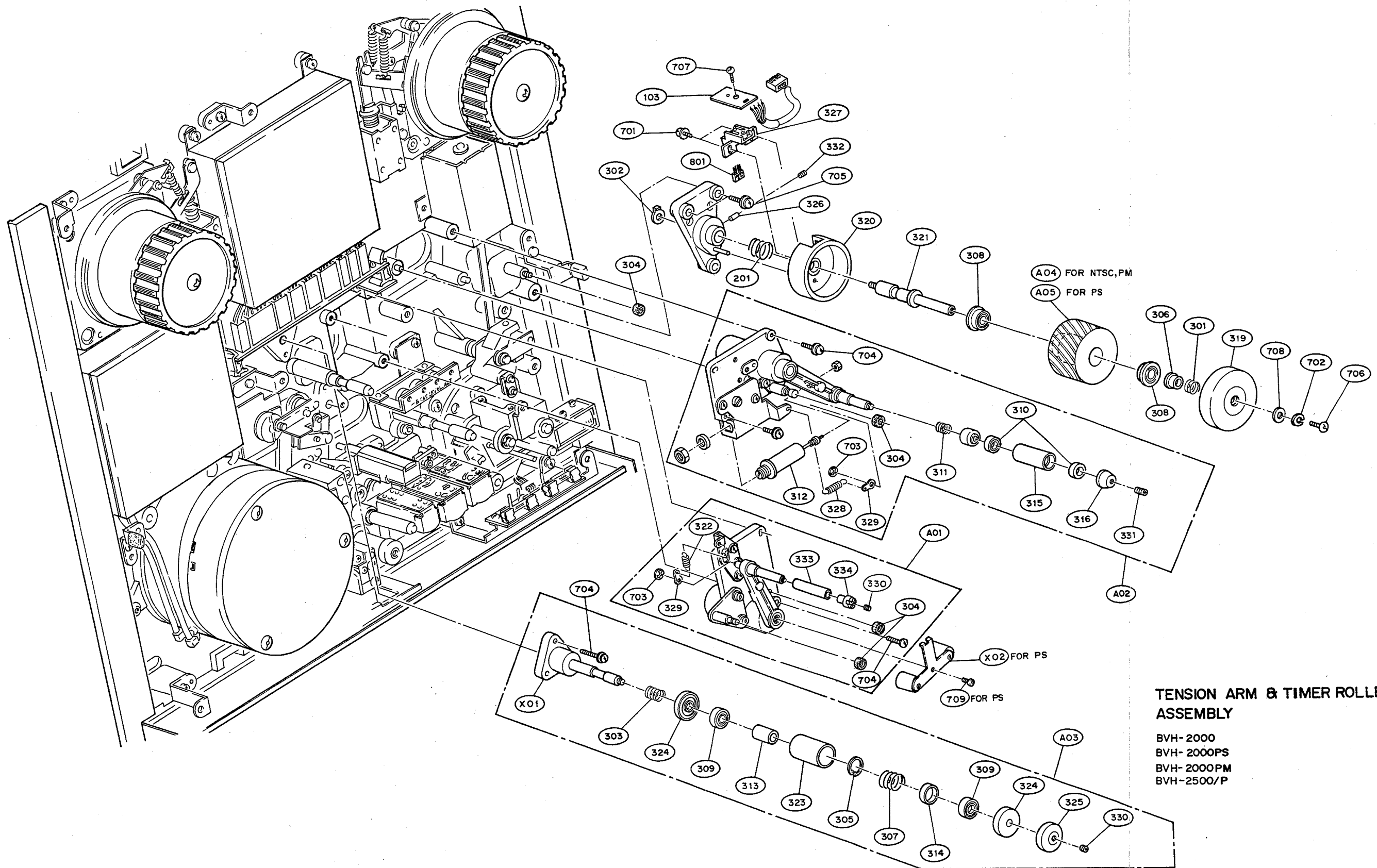
REEL TABLE ASSEMBLY (BVH-2180)

No.	Part No.	Description
A01 ()	A-6039-016-B	TABLE ASSY, REEL
A02	A-6039-024-A	MOTOR ASSY, SUPPLY REEL
A03	A-6039-025-A	MOTOR ASSY, TAKE-UP REEL
X01 ()	X-3651-315-0	CLAW ASSY, REEL
X02	X-3673-601-0	BAND ASSY, BRAKE
101	1-454-304-21	SOLENOID, 12V, 15/180 OHM
301	3-573-962-00	SPRING, TENSION
303	3-558-760-00	SPRING, COMPRESSION
304 ()	3-651-371-02	SHEET, REEL
305 ()	3-651-372-00	WASHER, REEL
306 ()	3-651-373-00	COVER
307 ()	3-651-375-00	SPRING, COMPRESSION
308 ()	3-651-377-00	SHEET, FRICTION
309 ()	3-651-378-00	SHEET, FRICTION ADJUSTMENT
310 ()	3-673-680-00	PIN, REEL STOPPER
311 ()	3-673-779-00	SHAFT, MAIN
312 ()	3-673-780-00	KNOB, REEL RETAINER
313 ()	3-673-810-00	PIN, SOLENOID
314	3-701-447-21	WASHER, M10, POLY
315	3-701-512-01	SET SCREW, 4x8
316	3-690-558-01	SPRING, TENSION
317	3-690-557-01	SPRING, TENSION
318 ()	3-680-319-01	PLATE(S), STOPPER
319 ()	3-680-320-01	PLATE(T), STOPPER
320 ()	3-673-711-02	CAM, REEL
401	4-836-109-00	SPRING, COMPRESSION
701	7-623-711-07	WASHER, M20, WAVE
702	7-624-105-04	STOP RING, E2.3
703	7-624-106-04	STOP RING, E3
704	7-624-197-71	STOP RING, C20
705	7-682-388-04	SCREW, RK6x12
706	7-686-448-01	SCREW, PS3x6
707	7-686-527-01	SCREW, PSW3x8
708	7-686-552-01	SCREW, PSW4x16
709	7-688-003-01	WASHER, M3, SMALL
801	8-838-088-01	MOTOR, S REEL, BHF-2201A
802	8-838-089-01	MOTOR, T REEL, BHF-2201B

TENSION ARM & TIMER ROLLER

TENSION ARM & TIMER ROLLER ASSEMBLY (BVH-2000/2180/2500/2700)

No.	Part No.	Description	No.	Part No.	Description
A01	A-6042-018-C	ARM ASSY,S TENSION	319 ()	3-673-627-00	FLANGE,CR UPPER
A02	A-6042-019-A	ARM ASSY,T TENSION (for BVH-2000/PS/PM) (for BVH-2500/P) (for BVH-2700)	320 ()	3-673-628-00	FLANGE,CR LOWER
	A-6042-021-A	ARM ASSY,T TENSION (for BVH-2180/PS/PM)	321 ()	3-673-629-00	SHAFT,CR
A03	A-6046-028-A	ROLLER ASSY,GUIDE	322 ()	3-673-652-02	SPRING,TENSION
A04	A-6045-018-C	ROLLER ASSY (for NTSC,PM)	323 ()	3-673-660-00	ROLLER,GUIDE
A05	A-6045-019-C	ROLLER ASSY (for PS,P)	324 ()	3-673-662-00	FLANGE,GR
X01 ()	X-3673-610-0	SHAFT ASSY,GR	325 ()	3-673-663-00	FLANGE,GR UPPER
X02 ()	X-3673-693-0	WEIGHT ASSY,BALANCE (for PS,P)	326 ()	3-673-667-00	PIECE
103 ()	1-606-698-00	TR-07 BOARD	327 ()	3-673-694-00	HOLDER,DME
201	2-263-515-00	SPRING,COMPRESSION	328	3-673-758-00	SPRING,TENSION (for BVH-2000/PS/PM) (for BVH-2500/P) (for BVH-2700)
301 ()	3-148-662-00	SPRING,COMPRESSION		3-690-507-01	SPRING,TENSION (for BVH-2180/PS/PM)
302	3-534-233-00	NUT,ADJUSTMENT	329	3-674-636-00	HOOK,SPRING
303	3-534-235-00	SPRING,COMPRESSION	330	3-701-505-00	SET SCREW,3x3
304 ()	3-534-255-00	CUSHION,BRAKE	331	3-701-506-01	SET SCREW,3x4
305	3-625-177-00	STOP RING 13	332	3-701-511-00	SET SCREW,4x6
306 ()	3-651-364-00	COLLAR,GR	333	3-680-331-01	COLLAR,S-TENSION
307	3-651-396-00	SPRING,COMPRESSION	334	3-680-332-01	CAP,S-TENSION
308	3-651-607-00	BEARING,BALL	701	7-621-981-15	SCREW,PSW2.6x6
309	3-656-948-00	BEARING,BALL	702	7-623-208-22	SPRING WASHER,M3
310	3-659-213-00	BEARING,BALL	703	7-624-193-07	STOP RING 2,GRIP
311 ()	3-663-116-00	SPRING,COMPRESSION	704	7-686-452-01	SCREW,PS3x16
312	3-673-614-00	DAMPER,AIR	705 ()	7-686-553-01	SCREW,PSW4x20
313	3-673-616-00	COLLAR,GR	706	7-686-628-04	SCREW,B3x14
314 ()	3-673-617-00	COLLAR,RETAINER,PRE-LOAD	707 ()	7-685-133-14	SCREW,BTP2.6x6
315 ()	3-673-620-00	ROLLER,T ARM	708	7-688-003-01	WASHER,M3,SMALL
316	3-673-621-00	CAP,T ARM	709	7-686-624-04	SCREW,B3x6
			801	8-745-211-00	DME,DM-211

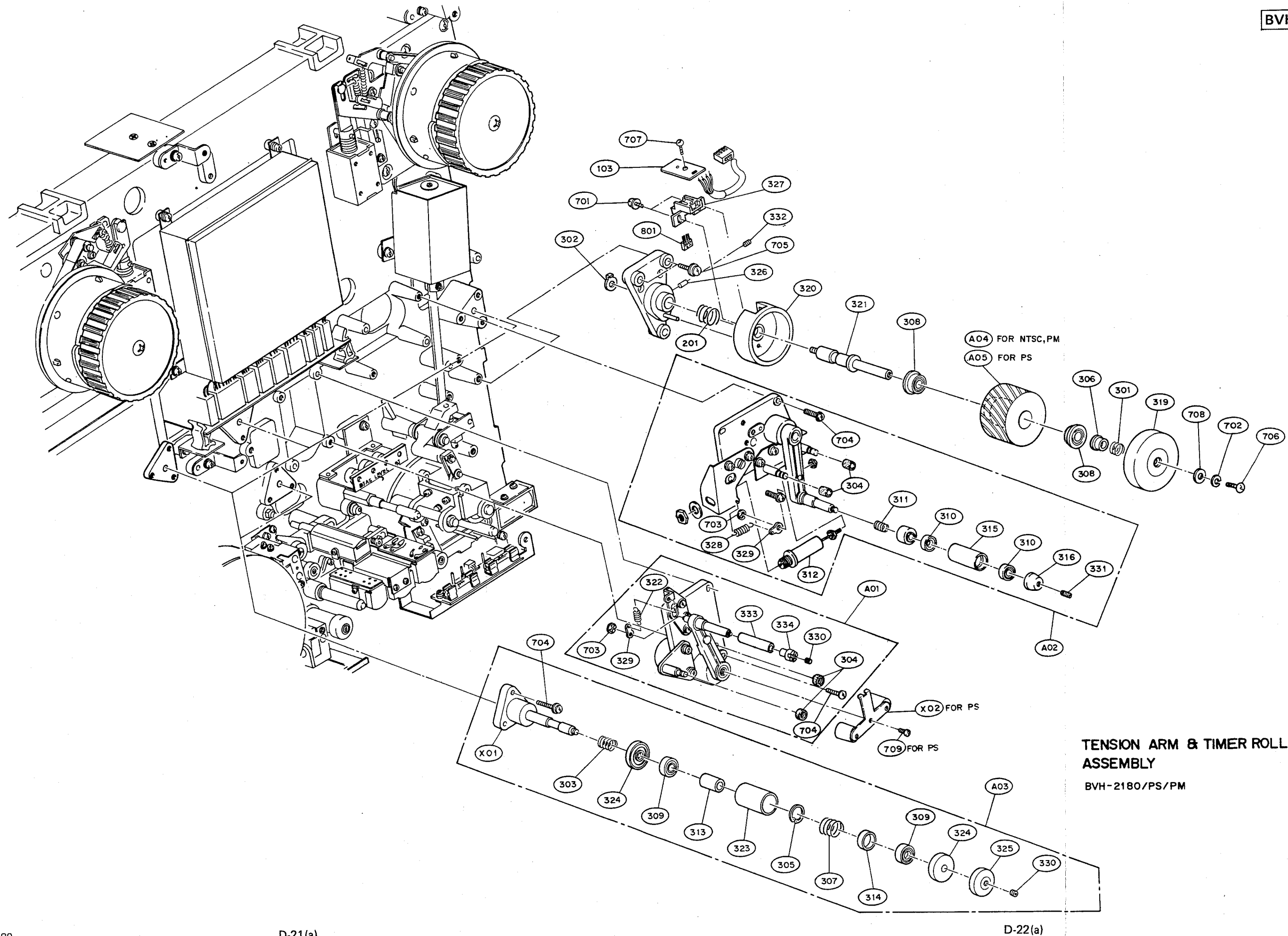
TENSION ARM & TIMER ROLLER
ASSEMBLY

BVH-2000
 BVH-2000PS
 BVH-2000PM
 BVH-2500/P

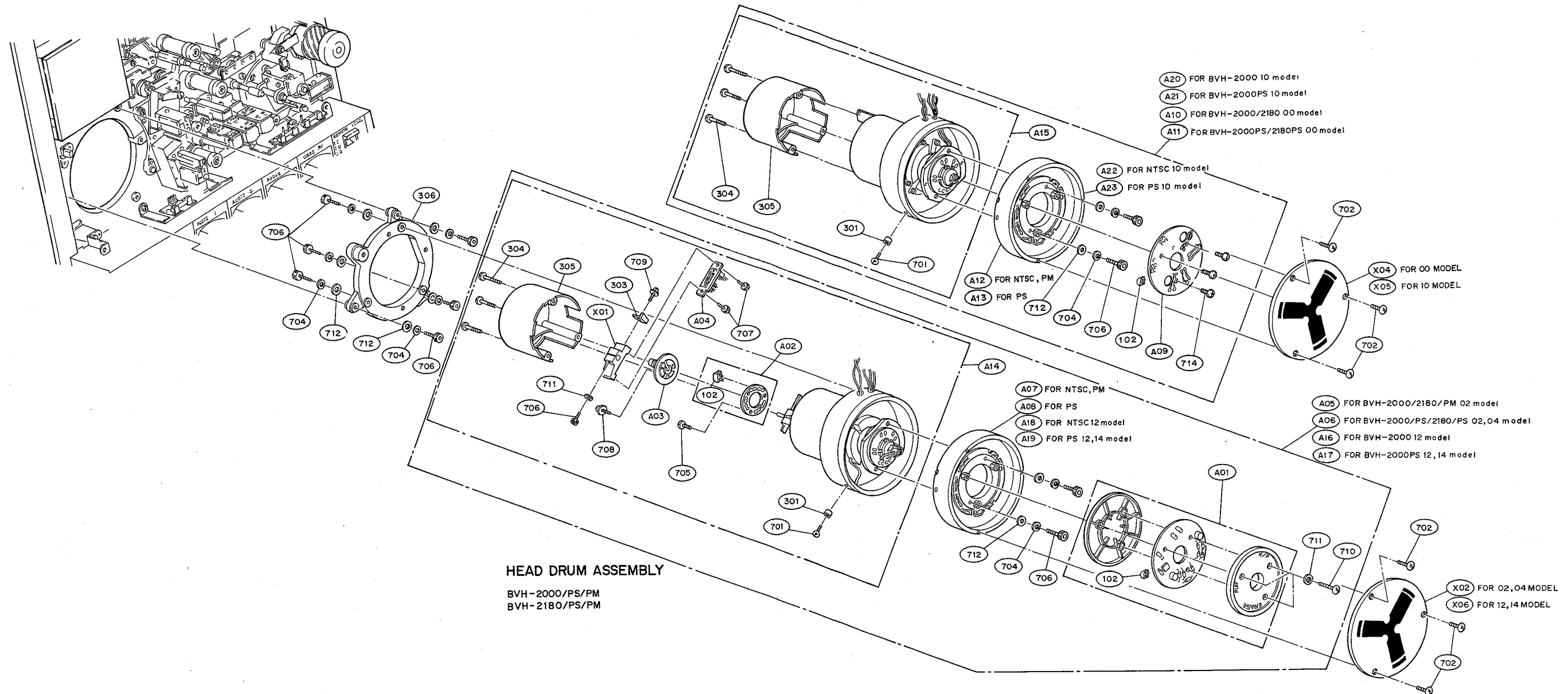
TENSION ARM & TIMER ROLLER

TENSION ARM & TIMER ROLLER ASSEMBLY (BVH-2000/2180/2500/2700)

No.	Part No.	Description	No.	Part No.	Description
A01	A-6042-018-C	ARM ASSY,S TENSION	319 ()	3-673-627-00	FLANGE,CR UPPER
A02	A-6042-019-A	ARM ASSY,T TENSION (for BVH-2000/PS/PM) (for BVH-2500/P) (for BVH-2700)	320 ()	3-673-628-00	FLANGE,CR LOWER
	A-6042-021-A	ARM ASSY,T TENSION (for BVH-2180/PS/PM)	321 ()	3-673-629-00	SHAFT,CR
A03	A-6046-028-A	ROLLER ASSY,GUIDE	322 ()	3-673-652-02	SPRING,TENSION
A04	A-6045-018-C	ROLLER ASSY (for NTSC,PM)	323 ()	3-673-660-00	ROLLER,GUIDE
A05	A-6045-019-C	ROLLER ASSY (for PS,P)	324 ()	3-673-662-00	FLANGE,GR
X01 ()	X-3673-610-0	SHAFT ASSY,GR	325 ()	3-673-663-00	FLANGE,GR UPPER
X02 ()	X-3673-693-0	WEIGHT ASSY,BALANCE (for PS,P)	326 ()	3-673-667-00	PIECE
103 ()	1-606-698-00	TR-07 BOARD	327 ()	3-673-694-00	HOLDER,DME
201	2-263-515-00	SPRING,COMPRESSION	328	3-673-758-00	SPRING,TENSION (for BVH-2000/PS/PM) (for BVH-2500/P) (for BVH-2700)
301 ()	3-148-662-00	SPRING,COMPRESSION			SPRING,TENSION (for BVH-2180/PS/PM)
302	3-534-233-00	NUT,ADJUSTMENT	329	3-674-636-00	HOOK,SPRING
303	3-534-235-00	SPRING,COMPRESSION	330	3-701-505-00	SET SCREW,3x3
304 ()	3-534-255-00	CUSHION,BRAKE	331	3-701-506-01	SET SCREW,3x4
305	3-625-177-00	STOP RING 13	332	3-701-511-00	SET SCREW,4x6
306 ()	3-651-364-00	COLLAR,GR	333	3-680-331-01	COLLAR,S-TENSION
307	3-651-396-00	SPRING,COMPRESSION	334	3-680-332-01	CAP,S-TENSION
308	3-651-607-00	BEARING,BALL	701	7-621-981-15	SCREW,PSW2.6x6
309	3-656-948-00	BEARING,BALL	702	7-623-208-22	SPRING WASHER,M3
310	3-659-213-00	BEARING,BALL	703	7-624-193-07	STOP RING 2,GRI P
311 ()	3-663-116-00	SPRING,COMPRESSION	704	7-686-452-01	SCREW,PS3x16
312	3-673-614-00	DAMPER,AIR	705 ()	7-686-553-01	SCREW,PSW4x20
313	3-673-616-00	COLLAR,GR	706	7-686-628-04	SCREW,B3x14
314 ()	3-673-617-00	COLLAR,RETAINER,PRE-LOAD	707 ()	7-685-133-14	SCREW,BTP2.6x6
315 ()	3-673-620-00	ROLLER,T ARM	708	7-688-003-01	WASHER,M3,SMALL
316	3-673-621-00	CAP,T ARM	709	7-686-624-04	SCREW,B3x6
			801	8-745-211-00	DME,DM-211

TENSION ARM & TIMER ROLLER
ASSEMBLY

BVH-2180/PS/PM



HEAD DRUM ASSEMBLY (BVH-2000/2180)

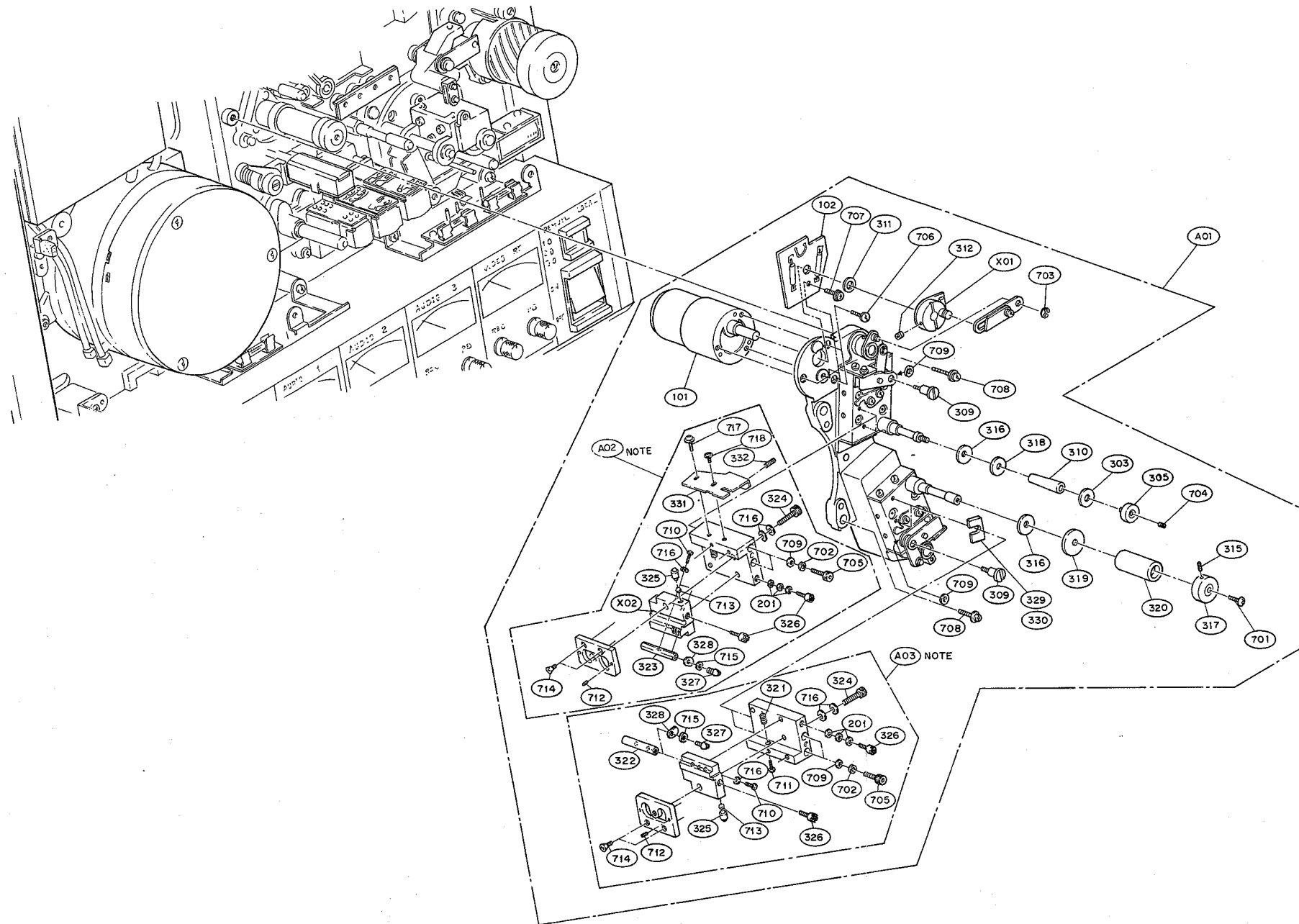
No.	Part No.	Description	No.	Part No.	Description
A01 ()	A-6049-008-A	COMPLETE PCB,DR-13R	A21	A-6050-429-A	HEAD DRUM ASSY,DMH-32A-R (for PS 10)
A02 ()	A-6026-023-B	MOUNTED PCB,SL-07	A22	A-6052-084-A	UPPER DRUM ASSY,DMR-31-R (for NTSC 10)
A03	A-6709-428-B	MOUNTED PCB,SL-08	A23	A-6052-086-A	UPPER DRUM ASSY,DMR-32-R (for PS 10)
A04	A-6709-429-C	MOUNTED PCB,SL-09	X01 ()	X-3673-405-0	FITTING BLOCK ASSY,FG
A05	A-6050-147-A	HEAD DRUM ASSY,DMH-17A-R (for NTSC 02,PM 02)	X02	X-3673-651-0	LID ASSY,DRUM
A06	A-6050-148-A	HEAD DRUM ASSY,DMH-18A-R (for PS 02,04)	X04	X-3673-681-0	LID ASSY,DRUM
A07	A-6052-046-A	UPPER DRUM ASSY,DMR-17-R (for NTSC 02,PM 02)	X05	X-3673-707-1	LID ASSY(NS),DRUM
A08	A-6052-047-A	UPPER DRUM ASSY,DMR-18-R (for PS 02,04)	X06	X-3673-708-1	LID ASSY(NS),DRUM
A09 ()	A-6010-070-A	MOUNTED PCB,DR-20 (Except for 12,14)	102	1-560-240-00	CONTACT
A10	A-6050-158-A	HEAD DRUM ASSY,DMH-19A-R (for NTSC 00,PM 00)	301 ()	3-654-914-00	STOPPER,TAPE
A11	A-6050-160-A	HEAD DRUM ASSY,DMH-20A-R (for PS 00)	303 ()	3-673-423-00	PLATE,SCALE
A12	A-6052-054-A	UPPER DRUM ASSY,DMR-19-R (for NTSC 00,PM 00)	304 ()	3-673-432-00	SCREW,M3x20,COVER
A13	A-6052-055-A	UPPER DRUM ASSY,DMR-20-R (for PS 00)	305 ()	3-673-434-00	COVER,SLIP RING
A14	A-6053-021-A	LOWER DRUM ASSY,DML-17A-R (for 02,04,12,14)	306	3-673-431-00	SLANT TABLE,DRUM
A15	A-6053-022-A	LOWER DRUM ASSY,DML-19A-R (for 00,10)	701	7-621-909-43	SCREW,P2,6x6
A16	A-6050-423-A	HEAD DRUM ASSY,DMH-29A-R (for NTSC 12)	702	7-621-912-38	SCREW,B2,6x6
A17	A-6050-425-A	HEAD DRUM ASSY,DMH-30A-R (for PS 12,14)	703	7-623-208-22	SPRING WASHER,M3
A18	A-6052-080-A	UPPER DRUM ASSY,DMR-29-R (for NTSC 12)	704	7-623-210-22	SPRING WASHER,M4
A19	A-6052-082-A	UPPER DRUM ASSY,DMR-30-R (for PS 12,14)	705	7-683-410-04	SCREW,C3x20
A20	A-6050-427-A	HEAD DRUM ASSY,DMH-31A-R (for NTSC 10)	706	7-683-422-04	SCREW,C4x14
			707	7-686-448-01	SCREW,PS3x8
			708	7-686-450-01	SCREW,PS3x12
			709	7-686-527-01	SCREW,PSW3x6
			710	7-686-625-04	SCREW,B3x8
			711	7-688-003-11	WASHER,M3,MIDDL
			712	7-688-004-11	WASHER,M4,MIDDL
			714	7-686-623-04	SCREW,B3x5

	UPPER DRUM ASSY	LOWER DRUM ASSY	HEAD DRUM ASSY
NTSC,PM(02 model)	DMR-17-R	DML-17A-R	DMH-17A-R
NTSC(00 model)	DMR-19-R	DML-19A-R	DMH-19A-R
PS(02,04 model)	DMR-18-R	DML-17A-R	DMH-18A-R
PS(00 model)	DMR-20-R	DML-19A-R	DMH-20A-R
NTSC (12 model)	DMR-29-R	DML-17A-R	DMH-29A-R
NTSC (10 model)	DMR-31-R	DML-19A-R	DMH-31A-R
PS (12,14 model)	DMR-30-R	DML-17A-R	DMH-30A-R
PS (10 model)	DMR-32-R	DML-19A-R	DMH-32A-R

MOVABLE GUIDE ASSY

MOVABLE GUIDE ASSEMBLY (BVH-2000/2180/2500/2700)

No.	Part No.	Description	No.	Part No.	Description
A01	A-6046-034-B	GUIDE ASSY,MOVABLE,TYPE A (for BVH-2000/PS/PM) (for BVH-2180/PS/PM) (for BVH-2500/P)	330	3-630-035-11	SPACER($t=0.02$)
	A-6046-046-A	GUIDE ASSY,MOVABLE,TYPE HS (for BVH-2700)	331 ()	3-680-362-01	FENCE
A02	A-6046-037-C	GUIDE ASSY,S SLANT	332	3-701-507-00	SETSCREW 3x5
A03	A-6046-035-A	GUIDE ASSY,T SLANT,TYPE A (for BVH-2000/PS/PM) (for BVH-2180/PS/PM) (for BVH-2500/P)	701	7-621-912-38	SCREW,B2.6x6
	A-6046-047-A	GUIDE ASSY,T SLANT,TYPE HS (for BVH-2700)	702	7-623-208-22	SPRING WASHER,M3
X01 ()	X-3673-619-0	DISK ASSY	703	7-624-106-04	STOP RING,E3
X02	X-3673-620-0	HOLDER ASSY,S GUIDE	704	7-683-237-01	SET SCREW,3x3
101	1-541-198-00	MOTOR,GEARED,DC12V EN35-H1G9B	705	7-683-406-04	SCREW,C3x12
102 ()	1-606-701-00	TH-03 BOARD	706	7-686-447-01	SCREW,PS3x6
201	2-529-922-00	WASHER(B)	707	7-686-528-01	SCREW,PSW3x8
303	3-651-427-03	FLANGE,TAPE GUIDE	708 ()	7-686-553-01	SCREW,PSW4x20
304	3-659-213-00	BEARING,BALL	709	7-688-003-01	WASHER,M3
305 ()	3-673-647-00	CAP A	710	7-621-259-42	SCREW,P2.6x6
309 ()	3-673-651-00	SHAFT,LEVER	711	7-621-259-62	SCREW,P2.6x10
310	3-673-725-02	GUIDE,TAPER	712	7-621-732-08	SET SCREW,2x3
311	3-701-444-21	WASHER,M6,POLY	713	7-671-155-01	STEEL BALL 3.0
312	3-701-510-00	SET SCREW,4x4	714	7-682-247-15	SCREW,K3x6
315	3-701-505-00	SET SCREW,3x3	715	7-688-002-03	WASHER,M2.6,SMALL
316 ()	3-680-324-00	SPRING	716	7-688-004-03	WASHER,M4,SMALL
317 ()	3-680-325-00	FLANGE,HEIGHT ADJUSTMENT	717	7-621-981-45	SCREW,PSW2.6x12
318 ()	3-680-326-00	FLANGE(S)	718	7-621-981-25	SCREW,PSW2.6x8
319 ()	3-680-327-00	FLANGE (T)			
320	3-680-328-02	GUIDE,T FIXED			
321	3-513-234-00	SPRING,COMPRESSION			
322	3-654-805-00	PIN(T),GUIDE			
323	3-654-835-00	PIN(S),GUIDE			
324	3-657-705-11	SCREW,C4x20			
325	3-673-720-00	ROD,SLANT ADJUSTMENT			
326	3-673-722-00	SCREW,ADJUSTMENT			
327	3-674-683-00	SCREW,FITTING,FLANGE			
328	3-680-321-00	FLANGE,GUIDE PIN			
329	3-630-035-01	SPACER($t=0.01$)			

**Note:**

For replacement of the components of A02 and A03, contact your SONY Office.

MOVABLE GUIDE ASSEMBLY

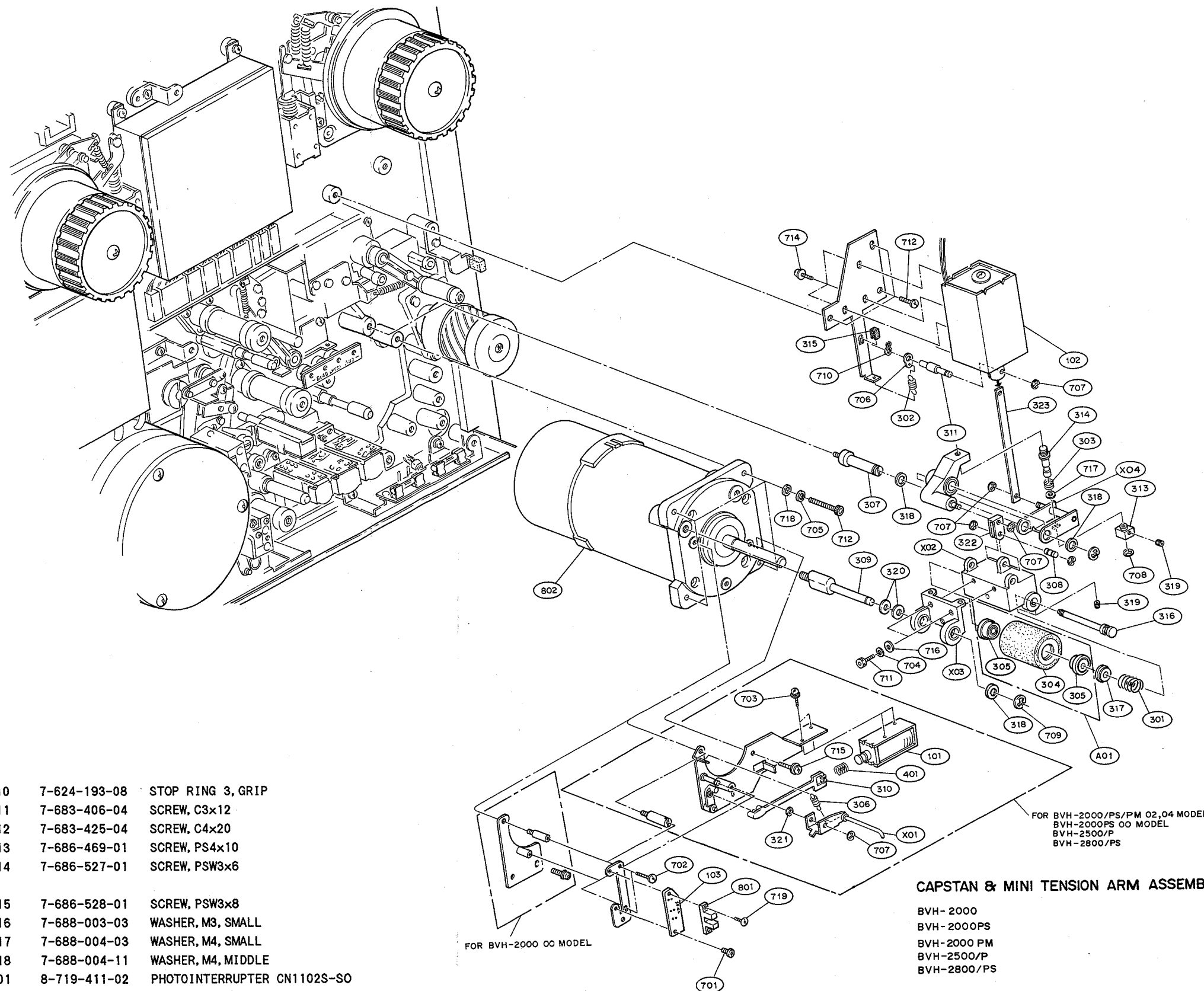
BVH-2000/PS/PM
 BVH-2180/PS/PM
 BVH-2500/P
 BVH-2700

CAPSTAN & MINI TENSION ARM ASSEMBLY (BVH-2000/2500/2800)

No.	Part No.	Description
A01	A-6035-036-A	ROLLER ASSY
X01	() X-3673-669-0	ARM ASSY, MINI TENSION (for BVH-2000/PS/PM 02, 04) (for BVH-2500) (for BVH-2800/PS)
X02	() X-3673-671-1	PINCH LEVER (1) ASSY
X03	() X-3673-672-2	PINCH LEVER (2) ASSY
X04	() X-3673-628-2	LEVER (2) ASSY, JOINT
101	1-454-263-21	SOLENOID, 12V, 60 OHM (for BVH-2000/PS/PM 02, 04) (for BVH-2500/P) (for BVH-2800/PS)
102	1-454-305-00	SOLENOID, 12V 20/52 OHM
103	() 1-606-702-00	TD-05 BOARD (WITHOUT COMPONENT)
301	3-530-045-00	SPRING, COMPRESSION
302	3-534-217-00	SPRING, TENSION
303	3-534-236-00	SPRING, COMPRESSION
304	3-656-909-02	PINCH ROLLER
305	3-656-913-00	BEARING, BALL
306	() 3-673-652-00	SPRING, TENSION
307	() 3-673-656-00	SHAFT, LEVER
308	() 3-673-658-00	PIN (2), JOINT
309	() 3-673-659-00	SHAFT, PINCH ROLLER
310	() 3-673-738-00	ROD
311	() 3-673-748-00	PIN, JOINT
313	() 3-673-751-00	STOPPER
314	() 3-673-752-00	SHAFT, PRESS ADJUSTMENT
315	() 3-673-795-00	CUSHION
316	() 3-673-807-00	SHAFT, PINCH ROLLER
317	() 3-673-808-00	RETAINER, BEARING
318	3-701-445-21	WASHER, M7, POLY
319	3-701-505-00	SET SCREW, 3x3
320	3-701-445-11	WASHER, M7, POLY
321	() 3-680-322-00	SPRING, FRICTION
322	() 3-673-657-02	JOINT
323	() 3-673-747-01	JOINT (2)
401	4-820-917-01	SPRING, COMPRESSION
701	7-621-972-25	SCREW, PS2, 6x6
702	7-621-972-35	SCREW, PS2, 6x8
703	7-621-981-05	SCREW, PSW2, 6x5
704	7-623-208-22	SPRING WASHER, M3
705	7-623-210-22	SPRING WASHER, M4
706	7-623-508-01	LUG 3
707	7-624-105-04	STOP RING, E2, 3
708	7-624-106-04	STOP RING, E3
709	7-624-110-04	STOP RING, E6

710	7-624-193-08	STOP RING 3, GRIP
711	7-683-406-04	SCREW, C3x12
712	7-683-425-04	SCREW, C4x20
713	7-686-469-01	SCREW, PS4x10
714	7-686-527-01	SCREW, PSW3x6
715	7-686-528-01	SCREW, PSW3x8
716	7-688-003-03	WASHER, M3, SMALL
717	7-688-004-03	WASHER, M4, SMALL
718	7-688-004-11	WASHER, M4, MIDDLE
801	8-719-411-02	PHOTOINTERRUPTER CN1102S-SO
802	8-838-029-01	MOTOR, CAPSTAN, BHF-2300A

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CAPSTAN & MINI TENSION ARM ASSEMBLY

BVH- 2000
BVH- 2000PS
BVH- 2000 PM
BVH- 2500/P
BVH- 2800/PS

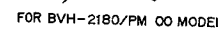
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BVH-2000/2500
(J, U/C, PS, PM)

CAPSTAN & MINI TENSION ARM

CAPSTAN & MINI TENSION ARM ASSEMBLY (BVH-2180/2830)

710	7-624-193-08	STOP RING 3, GRIP
711	7-683-406-04	SCREW, C3x12
712	7-683-425-04	SCREW, C4x20
713	7-686-469-01	SCREW, PS4x10
714	7-686-527-01	SCREW, PSW3x6
715	7-686-528-01	SCREW, PSW3x8
716	7-688-003-03	WASHER, M3, SMALL
717	7-688-004-03	WASHER, M4, SMALL
718	7-688-004-11	WASHER, M4, MIDDLE
801	8-719-411-02	PHOTOINTERRUPTER CN1102S-SO
802	8-838-029-01	MOTOR, CAPSTAN, BHF-2300A



CAPSTAN & MINI TENSION ARM ASSEMBLY
BVH-2180/PS/PM
BVH-2830/PS

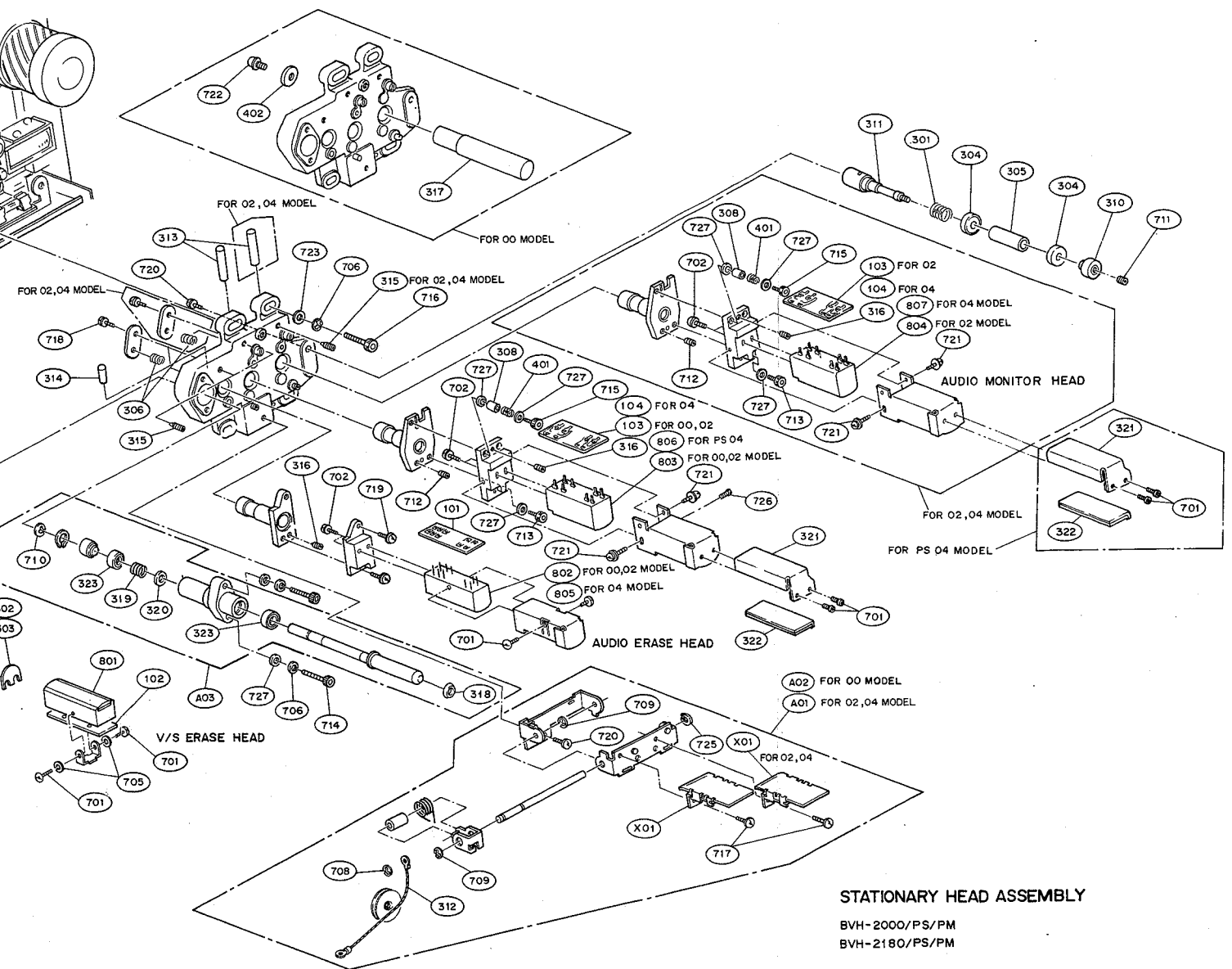
STATIONARY HEAD ASSY

STATIONARY HEAD ASSY

STATIONARY HEADS ASSEMBLY (BVH-2000/2180/2500)

No.	Part No.	Description
A01 ()	A-6036-052-A	SHIELD ASSY,FRONT (for 02,04 model)
A02 ()	A-6036-059-A	SHIELD ASSY,FRONT (for 00 model)
A03	A-6046-027-E	SHAFT ASSY,IP
X01 ()	X-3673-611-0	PLATE ASSY,SHIELD
101 ()	1-588-946-00	CEH-2 BOARD
102 ()	1-606-679-00	HD-06 BOARD
103 ()	1-606-680-00	HD-07 BOARD,for 00,02 model
104 ()	1-606-681-00	HD-08 BOARD,for PS 04
301	3-650-523-00	SPRING,COMPRESSION
302	3-651-419-01	SPACER (B),ERASE HEAD
303	3-651-419-21	SPACER (B),ERASE HEAD
304	3-651-427-00	FLANGE,TAPE GUIDE
305	3-651-428-00	GUIDE,TAPE
306	3-653-350-00	SPRING,COMPRESSION
308 ()	3-661-588-00	SPACER
310 ()	3-673-647-00	CAP A
311 ()	3-673-669-02	SHAFT,FIXED GUIDE
312	3-673-674-00	WIRE
313 ()	3-673-696-01	ROD,LOCK
314 ()	3-673-696-11	ROD,LOCK
315 ()	3-673-906-00	SET SCREW,4x10,CONE POINT
316	3-673-907-00	SET SCREW,3x6,CONE POINT
317	3-674-665-00	GUIDE,DUMMY (for 00 model)
318 ()	3-680-363-01	CAP,IP SHAFT
319 ()	3-674-689-00	SPRING,COMPRESSION
320 ()	3-674-690-00	SHIM

321 ()	3-674-692-00	COVER,SHIELD,HEAD,R/P	709	7-624-106-04	STOP RING,E3
322 ()	3-674-693-00	INSULATOR	710	7-624-108-04	STOP RING,E4
323	3-659-213-00	BEARING,BALL	711	7-683-237-01	SET SCREW,3x3,FLAT POINT
324 ()	3-673-791-02	SPRING,TORSION	713	7-683-405-04	SCREW,C3x10
325	3-673-686-00	PLATE, FRICTION	714	7-683-407-04	SCREW,C3x14
401	4-812-546-01	SPRING,COMPRESSION,(B)	715	7-683-408-04	SCREW,C3x16
402	4-828-624-01	WASHER,DIA.16	716	7-683-425-04	SCREW,C4x20
701	7-621-911-08	SCREW,B2x3	717	7-686-446-01	SCREW,PS3x5
702	7-621-972-25	SCREW,PS2.6x6	718	7-686-447-01	SCREW,PS3x6
703	7-621-972-45	SCREW,PS2.6x10	719	7-686-448-01	SCREW,PS3x8
704	7-621-981-15	SCREW,PSW2.6x6	720	7-686-469-01	SCREW,PS4x10
705	7-623-205-22	SPRING WASHER,M2	721	7-686-527-01	SCREW,PSW3x6
706	7-623-208-22	SPRING WASHER,M3	722	7-686-548-01	SCREW,PSW4x8
707	7-623-210-22	SPRING WASHER,M4	723	7-688-004-11	WASHER,M4,MIDDLE
708	7-624-105-04	STOP RING,E2.3	725	7-624-193-01	STOP RING 4,GRIP



STATIONARY HEAD ASSEMBLY

BVH-2000/PS/PM
BVH-2180/PS/PM

Note: BVH-2500 series has only 02 model.

726	7-686-623-04	SCREW,B3x5
727	7-688-003-01	WASHER,M3,SMALL
801	8-825-725-10	HEAD,VIDEO/SYNC ERASE, EF204-5102
802	8-825-725-50	HEAD,AUDIO ERASE,EF204-5104B (for 00,02 model)
803	8-825-737-10	HEAD,AUDIO R/P,PA77-5104C (for 00,02 model)
804	8-825-737-20	HEAD,AUDIO MONITOR, PA77-5104D (for 02 model)
805	8-825-725-70	HEAD,AUDIO ERASE,EF204-5105A (for PS 04)
806	8-825-737-61	HEAD,AUDIO R/P,PA77-5105B (for PS 04)
807	8-825-737-71	HEAD,AUDIO MONITOR,PA77-5105C (for PS 04)

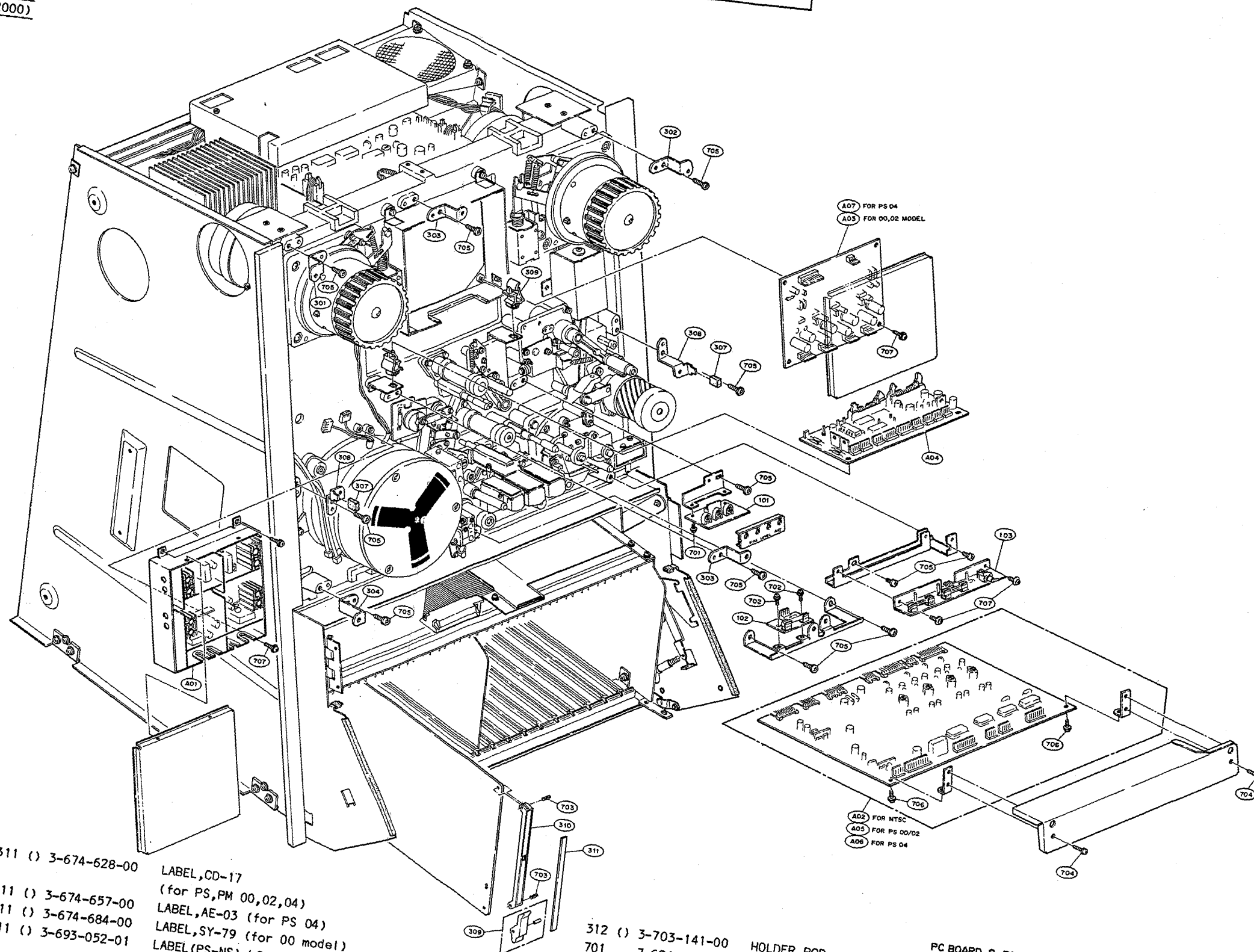
PC BOARD & PANEL BRACKET

PC BOARD & PANEL BRACKET

PC BOARDS & PANEL BRACKETS ON FRONT (BVH-2000)

No.	Part No.	Description
A01 ()	A-6011-063-A	COMPLETE PCB,RP-09
A02 ()	A-6013-067-A	COMPLETE PCB,AP-12 (for NTSC,PM)
A03 ()	A-6013-046-A	COMPLETE PCB,BE-03 (for 00,02 model)
A04 ()	A-6025-084-A	COMPLETE PCB,TT-01
A05 ()	A-6013-068-A	COMPLETE PCB,AP-12 (for PS 00/02)
A06 ()	A-6013-069-A	COMPLETE PCB,AP-12 (for PS 04)
A07 ()	A-6013-054-A	COMPLETE PCB,BE-03 (for PS 04)
101 ()	1-606-676-00	BE-04 BOARD (WITHOUT COMPONENT)
102 ()	1-606-699-00	HM-05 BOARD (WITHOUT COMPONENT)
103 ()	1-609-959-00	TM-16 BOARD (WITHOUT COMPONENT)
301 ()	3-673-677-00	BRACKET(1),PANEL
302 ()	3-673-678-00	BRACKET(2),PANEL
303 ()	3-673-679-01	BRACKET(3),PANEL
304 ()	3-673-679-11	BRACKET(3),PANEL
307 ()	3-673-784-00	CAP
308 ()	3-673-785-00	BRACKET(4),PANEL
309 ()	3-673-865-00	LEVER
310 ()	3-673-867-00	PLATE,INDICATION,PC BOARD
311 ()	3-674-611-00	LABEL,AU-27
311 ()	3-674-612-00	LABEL,AE-03 (for 00,02 model)
311 ()	3-674-613-00	LABEL,EQ-02 (for NTSC,PS,PM 00,02,04)
311 ()	3-674-614-00	LABEL,DM-25
311 ()	3-674-615-00	LABEL,MD-14 (for NTSC,PS,PM 00,02,04)
311 ()	3-674-616-11	LABEL,LG-02(A) (for NTSC 00,02)
311 ()	3-674-617-00	LABEL,SY-79 (for 02,04 model)
311 ()	3-674-618-00	LABEL,SY-80 (for NTSC,PM)
311 ()	3-674-619-00	LABEL,SV-43
311 ()	3-674-620-00	LABEL,RL-12
311 ()	3-674-621-00	LABEL,CD-17 (for NTSC 00,02)
311 ()	3-674-622-00	LABEL,SR-15 (for NTSC)
311 ()	3-674-623-00	LABEL,DT-04 (for NTSC,PM)
311 ()	3-674-624-00	LABEL,SY-80 (for PS)
311 ()	3-674-625-03	LABEL,DT-05 (for PS)
311 ()	3-674-626-00	LABEL,SR-15 (for PS,PM)
311 ()	3-674-627-11	LABEL,LG-02(A) (for NTSC,PS,PM 00,02,04)
311 ()	3-674-628-00	LABEL,CD-17 (for PS,PM 00,02,04)
311 ()	3-674-657-00	LABEL,AE-03 (for PS 04)
311 ()	3-674-684-00	LABEL,SY-79 (for 00 model)
311 ()	3-693-052-01	LABEL(PS-NS) LG-02 (for PS 10,12,14)
311 ()	3-693-053-01	LABEL(PS-NS) CD-17 (for PS 10,12,14)
311 ()	3-693-055-01	LABEL(NS) MD-14 (for 10,12,14)
311 ()	3-693-056-01	LABEL(NS) EQ-02 (for 10,12,14)
311 ()	3-693-057-01	LABEL(NS) LG-02 (for U/C 10,12)
311 ()	3-693-058-01	LABEL(NS) CD-17 (for U/C 10,12)

D-33



312 ()	3-703-141-00	HOLDER,PCB
701	7-621-981-05	SCREW,PSW2.6x5
702	7-621-981-15	SCREW,PSW2.6x6
703 ()	7-626-317-21	SPRING PIN 2.5x8
704	7-686-447-01	SCREW,PS3x6
705	7-686-469-01	SCREW,PS4x10
706	7-686-527-01	SCREW,PSW3x6
707	7-686-528-01	SCREW,PSW3x8

PC BOARD & PANEL BRACKETS ON FRONT
BVH-2000
BVH-2000PS
BVH-2000PM

D-34

BVH-2000
(J, U/C, PS, PM)

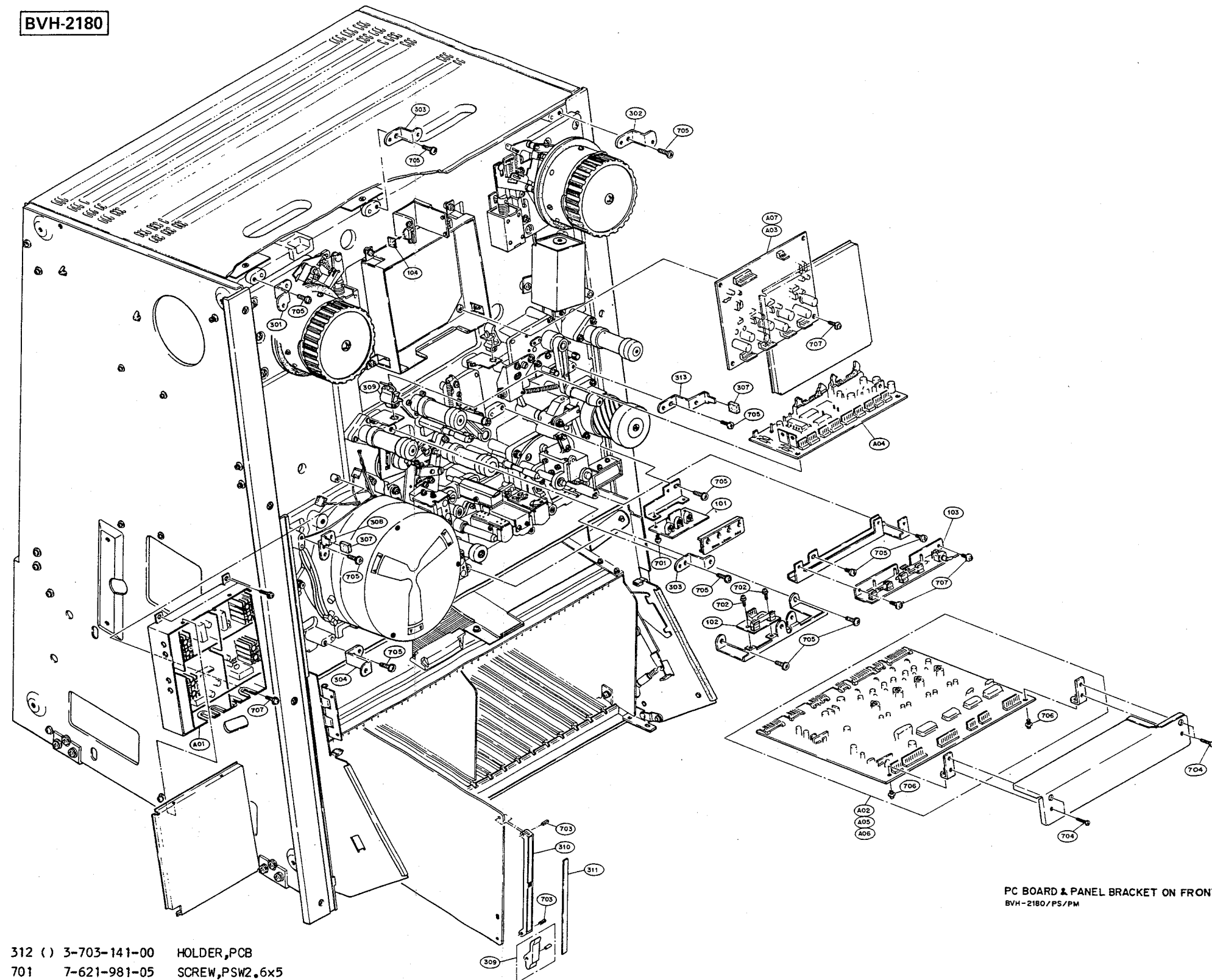
BVH-2180

PC BOARDS & PANEL BRACKETS ON FRONT (BVH-2180)

No.	Part No.	Description
A01 ()	A-6011-063-A	COMPLETE PCB,RP-09
A02 ()	A-6013-067-A	COMPLETE PCB,AP-12 (for NTSC,PM)
A03 ()	A-6013-046-A	COMPLETE PCB,BE-03 (for 00,02 model)
A04 ()	A-6025-091-A	COMPLETE PCB,TT-01
A05 ()	A-6013-068-A	COMPLETE PCB,AP-12 (for PS 00/02)
A06 ()	A-6013-069-A	COMPLETE PCB,AP-12 (for PS 04)
A07 ()	A-6013-054-A	COMPLETE PCB,BE-03 (for PS 04)
101 ()	1-606-676-00	BE-04 BOARD (WITHOUT COMPONENT)
102 ()	1-606-699-00	HM-05 BOARD (WITHOUT COMPONENT)
103 ()	1-609-959-12	TM-16 BOARD (WITHOUT COMPONENT)
104 ()	1-613-389-11	RS-18 BOARD (WITHOUT COMPONENT)
301 ()	3-673-677-00	BRACKET(1),PANEL
302 ()	3-673-678-00	BRACKET(2),PANEL
303 ()	3-673-679-01	BRACKET(3),PANEL
304 ()	3-673-679-11	BRACKET(3),PANEL
307 ()	3-673-784-00	CAP
308 ()	3-673-785-00	BRACKET(4),PANEL
309 ()	3-673-865-00	LEVER
310 ()	3-673-867-00	PLATE,INDICATION,PC BOARD
311 ()	3-674-611-00	LABEL,AU-27
311 ()	3-674-612-00	LABEL,AE-03 (for 00,02 model)
311 ()	3-674-613-00	LABEL,EQ-02
311 ()	3-674-614-00	LABEL,DM-25
311 ()	3-674-615-00	LABEL,MD-14
311 ()	3-674-616-11	LABEL,LG-02(A)
311 ()	3-674-617-00	LABEL,SY-79 (for 02,04 model)
311 ()	3-674-618-00	LABEL,SY-80 (for NTSC,PM)
311 ()	3-690-530-01	LABEL,SV-43
311 ()	3-690-531-01	LABEL,RL-12
311 ()	3-674-621-00	LABEL,CD-17 (for NTSC)
311 ()	3-674-622-00	LABEL,SR-15 (for NTSC)
311 ()	3-674-623-00	LABEL,DT-04 (for NTSC,PM)
311 ()	3-674-624-00	LABEL,SY-80 (for PS)
311 ()	3-674-625-03	LABEL,DT-05 (for PS)
311 ()	3-674-626-00	LABEL,SR-15 (for PS,PM)
311 ()	3-674-627-11	LABEL,LG-02(A)
311 ()	3-674-628-00	LABEL,CD-17 (for PS,PM)
311 ()	3-674-657-00	LABEL,AE-03 (for PS 04)
311 ()	3-674-684-00	LABEL,SY-79 (for 00 model)

312 ()	3-703-141-00	HOLDER,PCB
701	7-621-981-05	SCREW,PSW2.6x5
702	7-621-981-15	SCREW,PSW2.6x6
703 ()	7-626-317-21	SPRING PIN 2.5x8
704	7-686-447-01	SCREW,PS3x6
705	7-686-469-01	SCREW,PS4x10
706	7-686-527-01	SCREW,PSW3x6
707	7-686-528-01	SCREW,PSW3x8

D-33(a)

PC BOARD & PANEL BRACKET ON FRONT
BVH-2180/PS/PM

D-34(a)

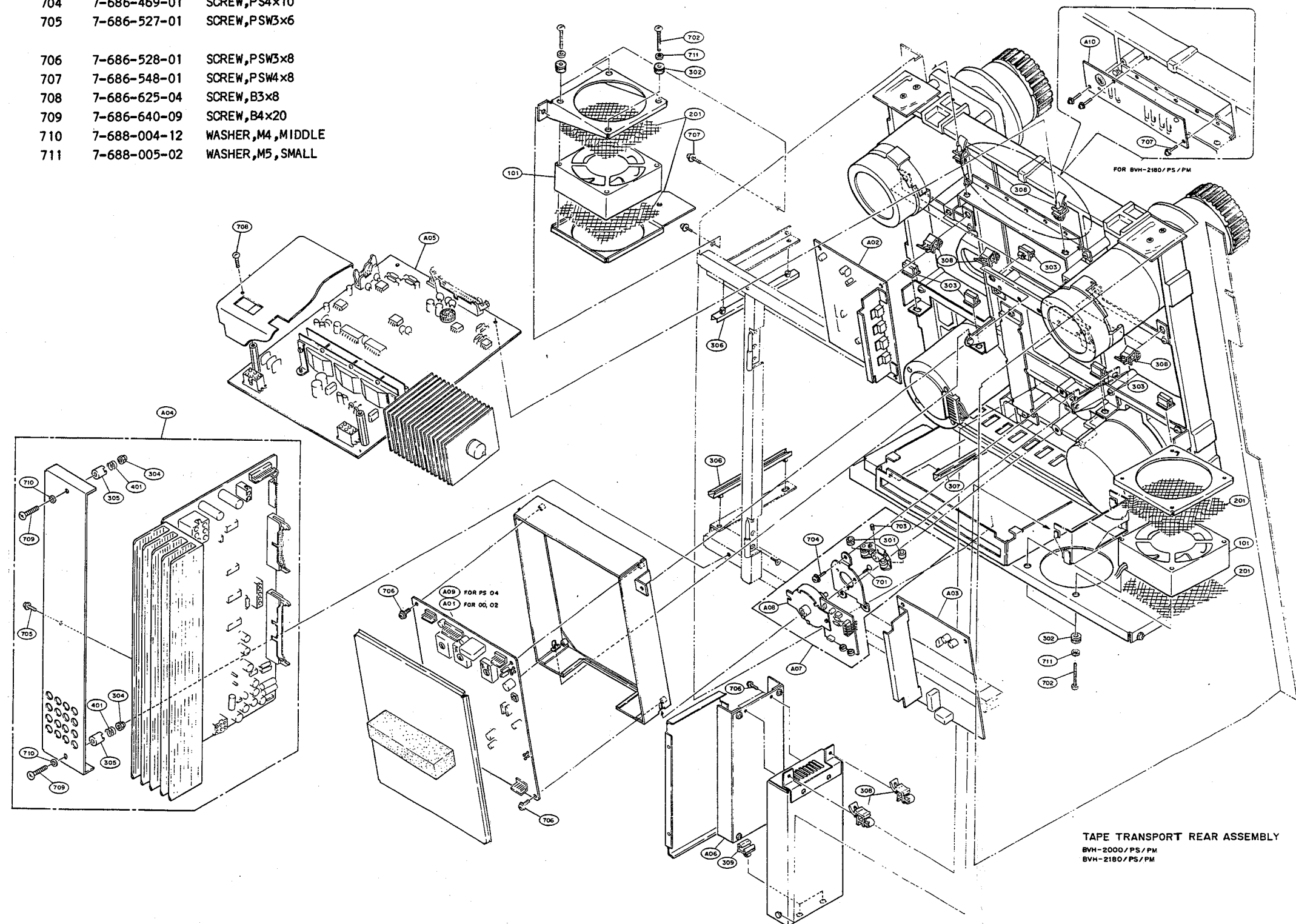
BVH-2180
(J, U/C, PS, PM)

TAPE TRANSPORT REAR ASSEMBLY (BVH-2000/2180/2500)

No.	Part No.	Description
A01 ()	A-6013-045-B	COMPLETE PCB,BE-02 (for BVH-2000/2180/PS/PM) 00,02 model) (for BVH-2500/P)
A02 ()	A-6015-064-A	COMPLETE PCB,CA-09
A03 ()	A-6015-065-A	COMPLETE PCB,DA-07
A04 ()	A-6023-030-A	COMPLETE PCB,PS-14
A05 ()	A-6023-031-A	COMPLETE PCB,RA-05
A06	A-6023-032-A	COMPLETE PCB,DD-01 (for BVH-2500)
	A-6023-035-A	COMPLETE PCB,DD-03 (for BVH-2000/PS/PM) (for BVH-2180/PS/PM)
A07 ()	A-6037-022-A	MOTOR ASSY,IP DRIVING
A08 ()	A-6037-025-A	MOTOR ASSY,ROLLER
A09 ()	A-6013-053-B	COMPLETE PCB,BE-02 (for BVH-2000PS 04 model) (for BVH-2180PS 04 model)
A10 ()	A-6025-093-A	COMPLETE PCB,RS-17 (for BVH-2180/PS/PM)
101	1-541-170-21	FAN,DC12V,FB-08B12HA
201 ()	2-252-609-00	COVER,FAN
301 ()	3-534-255-00	CUSHION,BRAKE
302 ()	3-630-837-00	BUSHING
303 ()	3-642-310-00	HOLDER,CIRCUIT BOARD
304 ()	3-680-316-00	NUT,M4,NYLON
305 ()	3-651-849-00	SPACER,PANEL
306 ()	3-673-676-11	RAIL,PC BOARD GUIDE
307 ()	3-673-676-21	RAIL,PC BOARD GUIDE
308 ()	3-703-141-00	HOLDER,CIRCUIT BOARD
309 ()	3-703-072-00	HOLDER,CIRCUIT BOARD
401 ()	3-303-890-01	SPRING,COMPRESSION

701	7-621-559-00	SCREW,K2.6x4
702	7-682-571-09	SCREW,+B4x45
703	7-683-238-01	SET SCREW 3x4,FLAT POINT
704	7-686-469-01	SCREW,PS4x10
705	7-686-527-01	SCREW,PSW3x6

706	7-686-528-01	SCREW,PSW3x8
707	7-686-548-01	SCREW,PSW4x8
708	7-686-625-04	SCREW,B3x8
709	7-686-640-09	SCREW,B4x20
710	7-688-004-12	WASHER,M4,MIDDLE
711	7-688-005-02	WASHER,M5,SMALL



TAPE TRANSPORT REAR ASSEMBLY
BVH-2000/PS/PM
BVH-2180/PS/PM

Ref.No.
or Q'ty Part No. Description

AU-27 BOARD (BVH-2000PS,2180PS/CARD RACK)

1pc () A-6013-050-A COMPLETE PCB,AU-27
(This assembly includes the following parts.)

C102,109,202,209	1-107-085-00	CAP,MICA 100PF 5% 50V
C180,280	1-107-210-00	CAP,MICA 22PF 5% 500V
C161	1-109-540-00	CAP,MICA 180PF 5% 100V
C267	1-109-541-00	CAP,MICA 200PF 5% 100V
C261,262	1-109-542-00	CAP,MICA 220PF 5% 100V
C167	1-109-543-00	CAP,MICA 240PF 5% 100V
C162	1-109-547-00	CAP,MICA 330PF 5% 100V
C163,263	1-109-549-00	CAP,MICA 390PF 5% 100V
C101,120,201,220	1-109-550-00	CAP,MICA 430PF 5% 100V
C104,105,114,115,133, 134,139,140,146,147, 148,156,157,165,166, 204,205,214,215,233, 234,239,240,246,247, 248,256,257,265,266	1-123-318-00	CAP,ELECT 33 16V
C141,149,150,241,249, 250	1-123-332-00	CAP,ELECT 47 25V
C143,145,243,245	1-123-333-00	CAP,ELECT 100 25V
C171,172,173,174,175, 176,177,271,272,273, 274,275,276,277	1-123-356-00	CAP,ELECT 10 50V
C108,208	1-130-467-00	CAP,MYLAR 470PF 5% 50V
C119,137,151,219,237, 251	1-130-470-00	CAP,MYLAR 820PF 5% 50V
C136,236	1-130-473-00	CAP,MYLAR 0.0015 5% 50V
C116,216	1-130-474-00	CAP,MYLAR 0.0018 5% 50V

Ref.No.
or Q'ty Part No. Description

(AU-27 BOARD,CARD RACK)

C113,129,132,213,229, 232	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C152,252 (May be used or not.)	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C154,179,254,279	1-130-477-00	CAP,MYLAR 0.0033 5% 50V
C112,212	1-130-481-00	CAP,MYLAR 0.0068 5% 50V
C168,268	1-130-482-00	CAP,MYLAR 0.0082 5% 50V
C159,259	1-130-620-00	CAP,FILM 0.01 5% 50V
C110,111,130,131,210, 211,230,231	1-130-624-00	CAP,FILM 0.022 5% 50V
C169,269	1-130-632-00	CAP,FILM 0.1 5% 50V
C117,135,217,235	1-131-347-00	CAP,TANT 0.1 10% 35V
C160,260	1-131-369-00	CAP,TANT 4.7 10% 16V
C118,153,170,218,253, 270	1-131-371-00	CAP,TANT 10 10% 16V
C178,278	1-131-373-00	CAP,TANT 22 10% 16V
C103,203	1-131-381-00	CAP,TANT 47 10% 10V
C142,144,242,244	1-161-051-00	CAP,CERAMIC 0.01 10% 50V
RV111,211	1-224-937-00	RES,VAR,METAL 1K
RV101,102,104,107,110, 201,202,204,207,210	1-224-940-00	RES,VAR,METAL 10K
RV103,105,106,203,205, 206	1-224-941-00	RES,VAR,METAL 20K
RV108,109,208,209	1-228-580-00	RES,VAR,COMP 20K(B)

Ref.No. or Q'ty	Part No.	Description
(AU-27 BOARD,CARD RACK)		
R102,170,202,270	1-247-767-00	RES,CARBON 2.2 5% 1/6W
R105,106,115,116,119, 125,135,136,141,142, 149,154,160,168,169, 172,182,183,194,205, 206,215,216,219,225, 235,236,241,242,249, 254,260,268,269,272, 282,283,294,331	1-247-807-00	RES,CARBON 100 5% 1/6W
R139,239	1-247-815-00	RES,CARBON 220 5% 1/6W
R188,288	1-247-821-00	RES,CARBON 390 5% 1/6W
R104,204	1-247-828-00	RES,CARBON 750 5% 1/6W
R114,134,147,148,199, 214,234,247,248,299	1-247-831-00	RES,CARBON 1K 5% 1/6W
R118,178,218,278	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R110,210	1-247-836-00	RES,CARBON 1.6K 5% 1/6W
R101,111,121,130,138, 201,211,221,230,238	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R145,165,245,265	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R167,267	1-247-846-00	RES,CARBON 4.3K 5% 1/6W
R117,120,137,140,161, 217,220,237,240,261	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R150,151,250,251	1-247-851-00	RES,CARBON 6.8K 5% 1/6W
R157,162,257,262	1-247-853-00	RES,CARBON 8.2K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AU-27 BOARD,CARD RACK)		
R124,156,158,187,190, 191,192,193,195,196, 224,256,258,287,290, 291,293,311,312,313, 314,315,316,317,321, 322,323,324,325,326, 327	1-247-855-00	RES,CARBON 10K 5% 1/6W
R198,298	1-247-857-00	RES,CARBON 12K 5% 1/6W
R171,271	1-247-860-00	RES,CARBON 16K 5% 1/6W
R107,164,207,264	1-247-861-00	RES,CARBON 18K 5% 1/6W
R175,181,275,281	1-247-863-00	RES,CARBON 22K 5% 1/6W
R108,208	1-247-864-00	RES,CARBON 24K 5% 1/6W
R174,274	1-247-867-00	RES,CARBON 33K 5% 1/6W
R197,297	1-247-870-00	RES,CARBON 43K 5% 1/6W
R122,222	1-247-871-00	RES,CARBON 47K 5% 1/6W
R144,244	1-247-877-00	RES,CARBON 82K 5% 1/6W
R123,146,180,185,189, 223,246,280,285,289	1-247-879-00	RES,CARBON 100K 5% 1/6W
R284	1-247-881-00	RES,CARBON 120K 5% 1/6W
R112,131,212,231	1-247-882-00	RES,CARBON 130K 5% 1/6W
R163,263	1-247-883-00	RES,CARBON 150K 5% 1/6W
R184,186,286	1-247-887-00	RES,CARBON 220K 5% 1/6W
R113,133,213,233	1-247-890-00	RES,CARBON 300K 5% 1/6W
R176,276	1-247-895-00	RES,CARBON 470K 5% 1/6W
R155,255	1-247-899-00	RES,CARBON 680K 5% 1/6W
R152,153,252,253	1-247-903-00	RES,CARBON 1M 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AU-27 BOARD,CARD RACK)		
LV102,202	1-407-293-00	INDUCTOR,VAR,1.5mH
LV101,201	1-407-297-00	INDUCTOR,VAR,3.5mH
L102,202	1-407-494-00	INDUCTOR,MICRO,1.5mH 5%
TH101,201	1-800-200-00	THERMISTOR,S-3K
TPE101,106,107,108,109, 201,206,207,208,209 () 3-673-772-01		TERMINAL,TP
TP101,102,103,104,105, 106,107,108,109,201, 202,203,204,205,206, 207,208,209 () 3-673-772-41		TERMINAL,TP
1pc () 3-673-865-00		LEVER,WITH PIN
1pc () 3-673-867-00		PLATE,INDICATION, PC BOARD
1pc () 3-674-611-00		LABEL(AU-27),PC BOARD
1pc 7-621-981-15		SCREW,PSW 2.6x6
2pcs () 7-626-317-21		PIN,SPRING 2.5x8
D101,102,201,202 8-719-815-80		DIODE 1S1587
D1 8-719-911-06		DIODE 1SS106
Q102,202 8-729-373-92		TRANSISTOR 2SB739
Q101,201 8-729-378-84		TRANSISTOR 2SD788
IC106,206 8-759-178-05		IC UPC78L05
IC101,201 8-759-302-65		IC HA12017
IC102,104,105,108,109, 202,204,205,208,209 8-759-745-59		IC NJM4559D

Ref.No. or Q'ty	Part No.	Description
(AU-27 BOARD,CARD RACK)		
IC107,207	8-759-745-60	IC NJM4560D
IC113,213	8-759-900-00	IC SN74LS00N,TTL
IC1,110,111,112,210,211, 212	8-759-921-91	IC TL191CN

AE-03 BOARD (BVH-2000PS-00,02,10,12/2180PS-00,02)

1pc (for 00/02/10/12 model)

() A-6013-051-B COMPLETE PCB,AE-03
(This assembly includes the following parts.)

1pc () X-3673-641-0 PLATE ASSY,SHIELD

C185,186	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C202	1-107-075-00	CAP,MICA 39PF 5% 50V
C148	1-107-077-00	CAP,MICA 47PF 5% 50V
C150	1-107-081-00	CAP,MICA 68PF 5% 50V
C203	1-107-158-00	CAP,MICA 30PF 5% 500V
C4,15	1-107-210-00	CAP,MICA 22PF 5% 500V
C12	1-109-546-00	CAP,MICA 300PF 5% 100V
C153	1-109-547-00	CAP,MICA 330PF 5% 100V
C2	1-109-550-00	CAP,MICA 430PF 5% 100V
C147	1-109-554-00	CAP,MICA 510PF 5% 100V

C3,5,9,11,19,20,25,26,
27,28,35,36,48,49,61,
63,70,71,73,74,141
1-123-332-00 CAP,ELECT 47 25V

Ref.No. or Qty	Part No.	Description
(AE-03 BOARD,2000PS-00,02,10,12/ 2180PS-00,02,CARD RACK)		
C23,24,41,42,200,201	1-123-333-00	CAP,ELECT 100 25V
C16,17,21,22,56,57,62, 67,68,77,80,81,181,182	1-123-356-00	CAP,ELECT 10 50V
C33	1-130-467-00	CAP,MYLAR 470PF 5% 50V
C149	1-130-468-00	CAP,MYLAR 560PF 5% 50V
C44	1-130-470-00	CAP,MYLAR 820PF 5% 50V
C32	1-130-472-00	CAP,MYLAR 0.0012 5% 50V
C8	1-130-473-00	CAP,MYLAR 0.0015 5% 50V
C10,146	1-130-474-00	CAP,MYLAR 0.0018 5% 50V
C38,46,65	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C14	1-130-476-00	CAP,MYLAR 0.0027 5% 50V
C45,69,76	1-130-477-00	CAP,MYLAR 0.0033 5% 50V
C154	1-130-480-00	CAP,MYLAR 0.0056 5% 50V
C64,151	1-130-481-00	CAP,MYLAR 0.0068 5% 50V
C51	1-130-620-00	CAP,FILM 0.01 5% 50V
C37,39	1-130-624-00	CAP,FILM 0.022 5% 50V
C184	1-131-295-61	CAP,TANT 100 10% 6.3V
C13,34,66	1-131-345-00	CAP,TANT 0.47 10% 35V
C29	1-131-347-00	CAP,TANT 1 10% 35V
C31	1-131-349-00	CAP,TANT 2.2 10% 35V
C6,18,52,75,145,189,190	1-131-351-00	CAP,TANT 4.7 10% 35V
C72	1-131-381-00	CAP,TANT 47 10% 10V
C7,55,140	1-136-156-00	CAP,FILM 0.018 5% 50V
C1,54,79,83,84	1-161-055-00	CAP,CERAMIC 0.022 10% 50V

Ref.No. or Qty	Part No.	Description
(AE-03 BOARD,2000PS-00,02,10,12/ 2180PS-00,02,CARD RACK)		
R128	1-215-394-00	RES,METAL 75 1% 1/6W
R246	1-215-395-00	RES,METAL 82 1% 1/6W
R274	1-215-411-00	RES,METAL 390 1% 1/6W
R249	1-215-413-00	RES,METAL 470 1% 1/6W
R273	1-215-414-00	RES,METAL 510 1% 1/6W
R138	1-215-435-00	RES,METAL 3.9K 1% 1/6W
R119	1-215-442-00	RES,METAL 7.5K 1% 1/6W
R248	1-215-445-00	RES,METAL 10K 1% 1/6W
RV12	1-224-937-00	RES,VAR,METAL 1K
RV3,4,6,9,13,16,17,32	1-224-940-00	RES,VAR,METAL 10K
RV1,2,5,8	1-224-941-00	RES,VAR,METAL 20K
RV15,18	1-226-095-00	RES,VAR,METAL 200K
RV28,29	1-228-580-00	RES,VAR,COMP 20K(B)
R81,253,264,265,266,283	1-247-767-00	RES,CARBON 2.2 5% 1/6W
R27,28,37,38,79,80,86, 100,101,244,277,278	1-247-799-00	RES,CARBON 47 5% 1/6W
R5,12,17,20,22,30,33,35, 48,49,55,56,57,62,63, 82,94,95,107,115,118, 321,323	1-247-807-00	RES,CARBON 100 5% 1/6W
R279	1-247-819-00	RES,CARBON 330 5% 1/6W
R135	1-247-823-00	RES,CARBON 470 5% 1/6W
R6,39,41,67,68	1-247-827-00	RES,CARBON 680 5% 1/6W
R18,44,66	1-247-831-00	RES,CARBON 1K 5% 1/6W
R123	1-247-834-00	RES,CARBON 1.3K 5% 1/6W
R34	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R2,16,24,25,59,69,131, 134,275	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R122,136	1-247-840-00	RES,CARBON 2.4K 5% 1/6W
R53	1-247-845-00	RES,CARBON 3.9K 5% 1/6W

Ref. No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-00, 02, 10, 12/ 2180PS-00, 02, CARD RACK)		
R73, 141, 276	1-247-847-00	RES, CARBON 4. 7K 5% 1/6W
R31	1-247-850-00	RES, CARBON 6. 2K 5% 1/6W
R43, 51	1-247-851-00	RES, CARBON 6. 8K 5% 1/6W
R11, 60, 61, 102	1-247-852-00	RES, CARBON 7. 5K 5% 1/6W
R47, 74, 77	1-247-853-00	RES, CARBON 8. 2K 5% 1/6W
R13, 14, 21, 23, 45, 46, 144, 145, 148, 149, 150, 151, 152, 153, 154, 155, 156, 161, 162, 163, 164, 285, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317	1-247-855-00	RES, CARBON 10K 5% 1/6W
R132	1-247-857-00	RES, CARBON 12K 5% 1/6W
R83	1-247-860-00	RES, CARBON 16K 5% 1/6W
R10, 32, 76	1-247-861-00	RES, CARBON 18K 5% 1/6W
R4, 90, 92, 133	1-247-863-00	RES, CARBON 22K 5% 1/6W
R97	1-247-865-00	RES, CARBON 27K 5% 1/6W
R129	1-247-866-00	RES, CARBON 30K 5% 1/6W
R87, 96, 146	1-247-867-00	RES, CARBON 33K 5% 1/6W
R126, 139	1-247-869-00	RES, CARBON 39K 5% 1/6W
R1	1-247-871-00	RES, CARBON 47K 5% 1/6W
R124, 137	1-247-873-00	RES, CARBON 56K 5% 1/6W
R64	1-247-875-00	RES, CARBON 68K 5% 1/6W
R112	1-247-876-00	RES, CARBON 75K 5% 1/6W
R52, 98, 109, 130, 250, 252, 286	1-247-879-00	RES, CARBON 100K 5% 1/6W
R15	1-247-880-00	RES, CARBON 110K 5% 1/6W
R99	1-247-881-00	RES, CARBON 120K 5% 1/6W

Ref. No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-00, 02, 10, 12/ 2180PS-00, 02, CARD RACK)		
R78, 251	1-247-883-00	RES, CARBON 150K 5% 1/6W
R93	1-247-886-00	RES, CARBON 200K 5% 1/6W
R54, 245, 287	1-247-887-00	RES, CARBON 220K 5% 1/6W
R65	1-247-895-00	RES, CARBON 470K 5% 1/6W
R19	1-247-898-00	RES, CARBON 620K 5% 1/6W
R42	1-247-899-00	RES, CARBON 680K 5% 1/6W
R40, 50	1-247-903-00	RES, CARBON 1M 5% 1/6W
LV1	1-407-293-00	INDUCTOR, VAR. 1. 5mH
LV2	1-407-297-00	INDUCTOR, VAR. 3. 5mH
SW3	1-552-430-21	SWITCH, SLIDE
SW1, 2	1-553-440-00	SWITCH, TOGGLE
TP1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 17, 18, 19		
TPE1, 2, 4, 7, 8, 9, 10, 11	() 3-657-703-01	TERMINAL, TP
1pc	() 3-673-865-00	LEVER, WITH PIN
1pc	() 3-673-867-00	PLATE, INDICATION, PC BOARD
1pc	() 3-674-612-00	LABEL (AE-03), PC BOARD
4pcs	7-621-981-15	SCREW, PSW2. 6x6
2pcs	() 7-626-317-21	PIN, SPRING 2. 5x8
D5	8-719-156-07	DIODE RD5. 6E-B
D1	8-719-815-55	DIODE 1S1555
D3, 4	8-719-815-80	DIODE 1S1587
Q7, 9	8-729-117-54	TRANSISTOR 2SA1175
Q2, 4	8-729-177-32	TRANSISTOR 2SD773
Q1, 15	8-729-201-05	TRANSISTOR 2SC2878-B
Q3, 5, 8	8-729-373-92	TRANSISTOR 2SB739
IC34	8-759-178-05	IC UPC78L05
IC15	8-759-208-06	IC TC4051BPHB
IC1, 33	8-759-302-65	IC HA12017
IC2, 6, 8, 9, 11, 14	8-759-745-59	IC NJM4559D

Ref.No. or Q'ty	Part No.	Description
(AE-03 BOARD,2000PS-00,02,10,12/ 2180PS-00,02,CARD RACK)		
IC5	8-759-745-60	IC NJM4560D
IC21	8-759-900-00	IC SN74LS00N,TTL
IC22	8-759-900-04	IC SN74LS04N,TTL
IC19	8-759-901-25	IC SN74LS125AN,TTL
IC18	8-759-901-26	IC SN74LS126AN,TTL
IC17	8-759-908-20	IC TL820CN
IC3,4,7,10,12	8-759-921-91	IC TL191CN
IC16	8-759-990-82	IC TL082CP
Q6	8-769-194-00	TRANSISTOR 2SK43-4
<hr/> AE-03 BOARD (BVH-2000PS-04,14/2180PS-04,CARD RACK) <hr/>		
1pc (for 04/14 model)		
() A-6013-055-A COMPLETE PCB,AE-03 (This assembly includes the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C185,186	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C202	1-107-075-00	CAP,MICA 39PF 5% 50V
C175	1-107-077-00	CAP,MICA 47PF 5% 50V
C150	1-107-081-00	CAP,MICA 68PF 5% 50V
C174	1-107-085-00	CAP,MICA 100PF 5% 50V
C94,171	1-107-087-00	CAP,MICA 120PF 5% 50V
C180	1-107-089-00	CAP,MICA 150PF 5% 50V
C166,188	1-107-091-00	CAP,MICA 180PF 5% 50V
C203	1-107-158-00	CAP,MICA 30PF 5% 500V
C104	1-107-202-00	CAP,MICA 10PF 5% 500V
C4,15,161	1-107-210-00	CAP,MICA 22PF 5% 500V
C172	1-108-560-00	CAP,MYLAR 0.0016 5% 50V

Ref.No. or Q'ty	Part No.	Description
(AE-03 BOARD,2000PS-04,14/2180PS-04,CARD RACK)		
C148 (One of the following capacitors is used.)		
	1-109-532-00	CAP,MICA 75PF 5% 100V
	1-107-085-00	CAP,MICA 100PF 5% 50V
C12	1-109-546-00	CAP,MICA 300PF 5% 100V
C157,165	1-109-549-00	CAP,MICA 390PF 5% 100V
C2,101	1-109-550-00	CAP,MICA 430PF 5% 100V
C3,5,9,11,19,20,25,26, 27,28,35,36,48,49,61, 63,70,71,73,74,89,90, 95,96,102,103,110,111, 120,121,122,123,131, 132,141,142		
	1-123-332-00	CAP,ELECT 47 25V
C23,24,41,42,118,119, 137,138,200,201		
	1-123-333-00	CAP,ELECT 100 25V
C16,17,21,22,56,57,62, 67,68,77,80,81,82,98, 99,100,116,117,125, 126,168,169,181,182		
	1-123-356-00	CAP,ELECT 10 50V
C33,92,129,164,183		
	1-130-467-00	CAP,MYLAR 470PF 5% 50V
C149	1-130-468-00	CAP,MYLAR 560PF 5% 50V
C153	1-130-469-00	CAP,MYLAR 680PF 5% 50V
C44,86,114		
	1-130-470-00	CAP,MYLAR 820PF 5% 50V
C64	1-130-471-00	CAP,MYLAR 0.001 5% 50V
C32,128	1-130-472-00	CAP,MYLAR 0.0012 5% 50V
C8,176	1-130-473-00	CAP,MYLAR 0.0015 5% 50V
C10,146	1-130-474-00	CAP,MYLAR 0.0018 5% 50V
C38,46,88,109,113,134		
	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C14	1-130-476-00	CAP,MYLAR 0.0027 5% 50V
C45,69,76,87,158		
	1-130-477-00	CAP,MYLAR 0.0033 5% 50V

Ref.No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-04, 14/2180PS-04, CARD RACK)		
C154, 177	1-130-480-00	CAP, MYLAR 0.0056 5% 50V
C106, 151	1-130-481-00	CAP, MYLAR 0.0068 5% 50V
C159	1-130-482-00	CAP, MYLAR 0.0082 5% 50V
C51, 93	1-130-620-00	CAP, FILM 0.01 5% 50V
C65	1-130-621-00	CAP, FILM 0.012 5% 50V
C162	1-130-622-00	CAP, FILM 0.015 5% 50V
C37, 39, 133, 135	1-130-624-00	CAP, FILM 0.022 5% 50V
C160, 173	1-130-632-00	CAP, FILM 0.1 5% 50V
C184	1-131-295-61	CAP, TANT 100 10% 6.3V
C156, 170	1-131-344-00	CAP, TANT 0.33 10% 35V
C13, 34, 66	1-131-345-00	CAP, TANT 0.47 10% 35V
C179	1-131-346-00	CAP, TANT 0.68 10% 35V
C29, 107, 124, 130	1-131-347-00	CAP, TANT 1 10% 35V
C178	1-131-348-00	CAP, TANT 1.5 10% 35V
C31, 127	1-131-349-00	CAP, TANT 2.2 10% 35V
C163	1-131-350-00	CAP, TANT 3.3 10% 35V
C6, 18, 52, 75, 91, 112, 145, 189, 190	1-131-351-00	CAP, TANT 4.7 10% 35V
C72	1-131-381-00	CAP, TANT 47 10% 10V
C7, 105, 108, 140	1-136-156-00	CAP, FILM 0.018 5% 50V
C55	1-136-160-00	CAP, FILM 0.039 5% 50V
C147	1-136-166-00	CAP, FILM 0.12 5% 50V
C1, 54, 78, 79, 83, 84, 115, 143	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
R128	1-215-394-00	RES, METAL 75 1% 1/6W
R246	1-215-395-00	RES, METAL 82 1% 1/6W
R274	1-215-411-00	RES, METAL 390 1% 1/6W
R249	1-215-413-00	RES, METAL 470 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-04, 14/2180PS-04, CARD RACK)		
R273	1-215-414-00	RES, METAL 510 1% 1/6W
R138	1-215-435-00	RES, METAL 3.9K 1% 1/6W
R119	1-215-442-00	RES, METAL 7.5K 1% 1/6W
R248	1-215-445-00	RES, METAL 10K 1% 1/6W
RV12, 35, 38	1-224-937-00	RES, VAR, METAL 1K
RV20	1-224-939-00	RES, VAR, METAL 5K
RV3, 4, 6, 9, 13, 16, 17, 19, 22, 24, 25, 27, 32, 34	1-224-940-00	RES, VAR, METAL 10K
RV1, 2, 5, 8, 23, 26, 33, 36	1-224-941-00	RES, VAR, METAL 20K
RV37	1-224-943-00	RES, VAR, METAL 100K
RV15, 18	1-226-095-00	RES, VAR, METAL 200K
RV28, 29, 30, 31	1-230-742-11	RES, VAR, CARBON 20K(B)
R81	1-247-767-00	RES, CARBON 2.2 5% 1/6W
R27, 28, 37, 38, 79, 80, 86, 100, 101, 173, 174, 185, 186, 210, 211, 231, 232, 244, 267, 268, 277, 278	1-247-799-00	RES, CARBON 47 5% 1/6W
R5, 12, 17, 20, 22, 30, 33, 35, 48, 49, 55, 56, 57, 62, 63, 82, 94, 95, 107, 115, 118, 171, 180, 181, 192, 196, 201, 202, 203, 221, 222, 228, 229, 230, 236, 240, 321, 322, 323	1-247-807-00	RES, CARBON 100 5% 1/6W
R206, 279	1-247-819-00	RES, CARBON 330 5% 1/6W
R200	1-247-821-00	RES, CARBON 390 5% 1/6W
R135	1-247-823-00	RES, CARBON 470 5% 1/6W
R6, 39, 41, 67, 68, 195, 212, 218, 241, 243	1-247-827-00	RES, CARBON 680 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-04, 14/2180PS-04, CARD RACK)		
R18, 44, 66, 214, 239	1-247-831-00	RES, CARBON 1K 5% 1/6W
R123	1-247-834-00	RES, CARBON 1.3K 5% 1/6W
R34, 255	1-247-835-00	RES, CARBON 1.5K 5% 1/6W
R2, 16, 24, 25, 59, 69, 131, 134, 187, 197, 207, 233, 242, 275	1-247-839-00	RES, CARBON 2.2K 5% 1/6W
R122, 136	1-247-840-00	RES, CARBON 2.4K 5% 1/6W
R177	1-247-841-00	RES, CARBON 2.7K 5% 1/6W
R97	1-247-843-00	RES, CARBON 3.3K 5% 1/6W
R53, 226	1-247-845-00	RES, CARBON 3.9K 5% 1/6W
R73, 141, 160, 204, 205, 276	1-247-847-00	RES, CARBON 4.7K 5% 1/6W
R31	1-247-850-00	RES, CARBON 6.2K 5% 1/6W
R43, 51, 213, 224, 281	1-247-851-00	RES, CARBON 6.8K 5% 1/6W
R11, 60, 61, 102, 234, 235	1-247-852-00	RES, CARBON 7.5K 5% 1/6W
R47, 74, 77, 165, 168, 220, 272	1-247-853-00	RES, CARBON 8.2K 5% 1/6W
R13, 14, 21, 23, 45, 46, 87, 144, 145, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 161, 162, 163, 164, 208, 209, 215, 216, 258, 263, 264, 266, 270, 271, 283, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317	1-247-855-00	RES, CARBON 10K 5% 1/6W
R132, 175	1-247-857-00	RES, CARBON 12K 5% 1/6W
R261, 282	1-247-859-00	RES, CARBON 15K 5% 1/6W
R83, 172	1-247-860-00	RES, CARBON 16K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-04, 14/2180PS-04, CARD RACK)		
R10, 32, 76, 167, 178, 193	1-247-861-00	RES, CARBON 18K 5% 1/6W
R4, 133, 254	1-247-863-00	RES, CARBON 22K 5% 1/6W
R194	1-247-864-00	RES, CARBON 24K 5% 1/6W
R179	1-247-865-00	RES, CARBON 27K 5% 1/6W
R129	1-247-866-00	RES, CARBON 30K 5% 1/6W
R146, 183, 188	1-247-867-00	RES, CARBON 33K 5% 1/6W
R126, 139	1-247-869-00	RES, CARBON 39K 5% 1/6W
R256	1-247-870-00	RES, CARBON 43K 5% 1/6W
R124, 137	1-247-873-00	RES, CARBON 56K 5% 1/6W
R189, 262	1-247-874-00	RES, CARBON 62K 5% 1/6W
R64, 265	1-247-875-00	RES, CARBON 68K 5% 1/6W
R112	1-247-876-00	RES, CARBON 75K 5% 1/6W
R1, 52, 98, 109, 130, 176, 225, 237, 250, 252, 257, 260, 286	1-247-879-00	RES, CARBON 100K 5% 1/6W
R15	1-247-880-00	RES, CARBON 110K 5% 1/6W
R99	1-247-881-00	RES, CARBON 120K 5% 1/6W
R78, 93, 96, 169, 251	1-247-883-00	RES, CARBON 150K 5% 1/6W
R9, 54, 198, 227, 245, 259, 287	1-247-887-00	RES, CARBON 220K 5% 1/6W
R199, 238	1-247-891-00	RES, CARBON 330K 5% 1/6W
R65	1-247-895-00	RES, CARBON 470K 5% 1/6W
R269	1-247-897-00	RES, CARBON 560K 5% 1/6W
R19	1-247-898-00	RES, CARBON 620K 5% 1/6W
R42, 219	1-247-899-00	RES, CARBON 680K 5% 1/6W
R40, 50, 217, 223	1-247-903-00	RES, CARBON 1M 5% 1/6W
R90, 92	1-249-429-11	RES, CARBON 10K 5% 1/6W
LV1, 6	1-407-293-00	INDUCTOR, VAR, 1.5mH
LV2, 3, 4, 5	1-407-297-00	INDUCTOR, VAR, 3.5mH

Ref. No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-04, 14/2180PS-04, CARD RACK)		
SW3	1-552-430-21	SWITCH, SLIDE
SW1, 2	1-553-440-00	SWITCH, TOGGLE
TP1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19		
TPE1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13		
	() 3-657-703-01	TERMINAL, TP
1pc	() 3-673-865-00	LEVER, WITH PIN
1pc	() 3-673-867-00	PLATE, INDICATION, PC BOARD
1pc	() 3-674-657-00	LABEL (AE-03), PC BOARD
4pcs	7-621-981-15	SCREW, PSW2. 6x6
2pcs	() 7-626-317-21	PIN, SPRING 2.5x8
D5	8-719-156-07	DIODE RD5.6E-B
D1	8-719-815-55	DIODE 1S1555
D3, 4, 6, 7	8-719-815-80	DIODE 1S1587
Q7, 9	8-729-117-54	TRANSISTOR 2SA1175
Q2, 4, 11, 13	8-729-177-32	TRANSISTOR 2SD773
Q1, 15	8-729-201-05	TRANSISTOR 2SC2878-B
Q3, 5, 8, 12, 14	8-729-373-92	TRANSISTOR 2SB739
IC35	8-759-045-38	IC MC14538BCP, CMOS
IC34	8-759-178-05	IC UPC78L05
IC15	8-759-208-06	IC TC4051BPHB
IC1, 26, 33	8-759-302-65	IC HA12017
IC2, 6, 8, 9, 11, 14, 23, 24, 27, 30, 32	8-759-745-59	IC NJM4559D
IC5, 29	8-759-745-60	IC NJM4560D
IC21	8-759-900-00	IC SN74LS00N, TTL
IC22	8-759-900-04	IC SN74LS04N, TTL
IC20	8-759-900-08	IC SN74LS08N, TTL
IC19	8-759-901-25	IC SN74LS125AN, TTL

Ref. No. or Q'ty	Part No.	Description
(AE-03 BOARD, 2000PS-04, 14/2180PS-04, CARD RACK)		
IC18	8-759-901-26	IC SN74LS126AN, TTL
IC17	8-759-908-20	IC TL820CN
IC3, 4, 7, 10, 12, 13, 25, 28, 31	8-759-921-91	IC TL191CN
IC16	8-759-990-82	IC TL082CP
Q6	8-769-194-00	TRANSISTOR 2SK43-4

Ref.No. or Q'ty	Part No.	Description
<u>EQ-02 BOARD (BVH-2000PS,2180PS/CARD RACK)</u>		
1pc	() A-6011-067-D	COMPLETE PCB,EQ-02 WITH EQ-11
1pc	() A-6011-095-B	COMPLETE PCB,EQ-02 WITH EQ-11
(For BVH-2000PS 10,12,14 model)		
(This assembly includes the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C98,107	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C15,58,119,120,127,130	1-107-078-00	CAP,MICA 51PF 5% 50V
C4,6,9,13,156,157,158, 159	1-107-081-00	CAP,MICA 68PF 5% 50V
C73	1-107-082-00	CAP,MICA 75PF 5% 50V
C99	1-107-157-00	CAP,MICA 27PF 5% 500V
C160	1-107-158-00	CAP,MICA 30PF 5% 500V
C142	1-107-202-00	CAP,MICA 10PF 5% 500V
C32	1-107-205-00	CAP,MICA 13PF 5% 500V
C60	1-107-208-00	CAP,MICA 18PF 5% 500V
C131	1-109-535-00	CAP,MICA 100PF 5% 100V
C132	1-109-538-00	CAP,MICA 130PF 5% 100V
C38,95	1-109-539-00	CAP,MICA 150PF 5% 100V
C134,135	1-123-380-00	CAP,ELECT 1 100V
C136	1-123-567-00	CAP,ELECT 2200 10V
C52,57	1-123-839-00	CAP,ELECT 1000 16V
C1,7,10,24,31,33,40,51, 68,76,79,96,104,121, 129,138,140	1-124-445-00	CAP,ELECT 100 16V
C54,55	1-124-474-00	CAP,ELECT 47 16V
C46,82,108,113,114	1-124-481-00	CAP,ELECT 22 35V
C111	1-124-656-00	CAP,ELECT,NONPOLAR 2.2 50V
C92	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C122,123	1-130-477-00	CAP,MYLAR 0.0033 5% 50V
C102	1-130-478-00	CAP,MYLAR 0.0039 5% 50V

Ref.No. or Q'ty	Part No.	Description
<u>(EQ-02 BOARD,BVH-2000PS,2180PS/CARD RACK)</u>		
C133	1-130-481-00	CAP,MYLAR 0.0068 5% 50V
C100	1-130-485-00	CAP,MYLAR 0.015 5% 50V
C103	1-130-487-00	CAP,MYLAR 0.022 5% 50V
C125	1-130-495-00	CAP,MYLAR 0.1 5% 50V
CV1	1-141-256-00	CAP,TRIMMER 8PF
C3,5,8,12,19,28,30,36, 37,39,42,43,44,45,59, 62,66,69,71,78,84,85, 87,89,93,97,105,112, 115,117,126,147	1-161-051-00	CAP,CERAMIC 0.01 10% 50V
C86,152,153,154,155	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
C53,56,137	1-161-057-00	CAP,CERAMIC 0.033 10% 50V
C150,151	1-161-483-00	CAP,CERAMIC 0.1 10% 50V
C2,11,14,26,27,29,34,35, 41,47,50,61,63,64,65, 67,70,72,77,80,83,88, 90,91,94,101,106,109, 110,116,118,124,128, 139,170	1-162-596-00	CAP,CERAMIC 0.022 25V
R301,302,303,304	1-215-391-00	RES,METAL 56 1% 1/6W
R9,20,33,44	1-215-397-00	RES,METAL 100 1% 1/6W
R90,167	1-215-401-00	RES,METAL 150 1% 1/6W
R297	1-215-403-00	RES,METAL 180 1% 1/6W
R133	1-215-404-00	RES,METAL 200 1% 1/6W
R8,19,32,43	1-215-406-00	RES,METAL 240 1% 1/6W
R317,318,319,320	1-215-415-00	RES,METAL 560 1% 1/6W
R112	1-215-419-00	RES,METAL 820 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(EQ-02 BOARD,BVH-2000PS,2180PS/CARD RACK)		
R253	1-215-424-00	RES,METAL 1.3K 1% 1/6W
R191	1-215-425-00	RES,METAL 1.5K 1% 1/6W
R254	1-215-428-00	RES,METAL 2K 1% 1/6W
R211,R220	1-215-441-00	RES,METAL 6.8K 1% 1/6W
R296	1-215-443-00	RES,METAL 8.2K 1% 1/6W
R321	1-215-445-00	RES,METAL 10K 1% 1/6W
RV36,37	1-224-926-00	RES,VAR,METAL 500
RV9,10,11,12	1-224-935-00	RES,VAR,METAL 200
RV31,32,33,34	1-224-936-00	RES,VAR,METAL 500
RV13,14,16,18	1-224-937-00	RES,VAR,METAL 1K
RV27	1-224-938-00	RES,VAR,METAL 2K
RV35	1-224-941-00	RES,VAR,METAL 20K
RV26	1-224-942-00	RES,VAR,METAL 50K
RV22	1-230-837-11	RES,ADJ,CERMET 100
RV23,25,28	1-230-842-11	RES,ADJ,CERMET 5K
RV24	1-230-843-11	RES,ADJ,CERMET 10K
RV30	1-230-844-11	RES,ADJ,CERMET 20K
RV1,3,5,7	1-230-738-00	RES,VAR,COMP 200(B)
RV2,4,6,8	1-230-740-00	RES,VAR,COMP 5K(B)
R7,18,31,42,101	1-247-791-00	RES,CARBON 22 5% 1/6W
R85,91,108,109,134,140, 142,157,158,168,170, 176,197,324,325	1-247-795-00	RES,CARBON 33 5% 1/6W
R5,16,30,41,121,131,163	1-247-800-00	RES,CARBON 51 5% 1/6W
R146,147,188	1-247-804-00	RES,CARBON 75 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(EQ-02 BOARD,BVH-2000PS,2180PS/CARD RACK)		
R1,3,12,14,25,27,36,39, 82,92,106,113,114,115, 122,123,124,127,128, 129,136,137,138,148, 150,155,156,166,179, 180,189,210,214,215, 230,251,256,286,293, 359	1-247-807-00	RES,CARBON 100 5% 1/6W
R285	1-247-810-00	RES,CARBON 130 5% 1/6W
R308	1-247-811-00	RES,CARBON 150 5% 1/6W
R102,110,120,149,294	1-247-814-00	RES,CARBON 200 5% 1/6W
R94,111,139,171,172,175, 212,282,283,287	1-247-818-00	RES,CARBON 300 5% 1/6W
R2,4,13,15,26,28,37,38, 97,118,132,154	1-247-819-00	RES,CARBON 330 5% 1/6W
R306	1-247-820-00	RES,CARBON 360 5% 1/6W
R55,60,151,258,264	1-247-821-00	RES,CARBON 390 5% 1/6W
R162	1-247-822-00	RES,CARBON 430 5% 1/6W
R280	1-247-823-00	RES,CARBON 470 5% 1/6W
R213,252	1-247-824-00	RES,CARBON 510 5% 1/6W
R144	1-247-825-00	RES,CARBON 560 5% 1/6W
R99,100,107,116,135,141	1-247-827-00	RES,CARBON 680 5% 1/6W
R190	1-247-828-00	RES,CARBON 750 5% 1/6W
R53,54,57,58,259,260, 262,263,281,284	1-247-829-00	RES,CARBON 820 5% 1/6W
R87,89,98,104,105,125, 126,160,161,164,169, 174,177,192,194,198, 204,208,209,217,219, 228,234,241,250,225	1-247-831-00	RES,CARRON 1K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(EQ-02 BOARD,BVH-2000PS,2180PS/CARD RACK)		
R61,130,270,271	1-247-832-00	RES,CARBON 1.1K 5% 1/6W
R307	1-247-834-00	RES,CARBON 1.3K 5% 1/6W
R6,17,29,40,56,59,261, 265	1-247-836-00	RES,CARBON 1.6K 5% 1/6W
R227	1-247-837-00	RES,CARBON 1.8K 5% 1/6W
R193,202,203,226,231, 248,257,289	1-247-838-00	RES,CARBON 2K 5% 1/6W
R88,93,165	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R275	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R206,233,240,309,310, 311,312,313,314,315, 316	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R96,103,196	1-247-849-00	RES,CARBON 5.6K 5% 1/6W
R195,221,222,223,224, 225	1-247-850-00	RES,CARBON 6.2K 5% 1/6W
R117,119,143,145,152, 153,279	1-247-852-00	RES,CARBON 7.5K 5% 1/6W
R199,207	1-247-857-00	RES,CARBON 12K 5% 1/6W
R247	1-247-859-00	RES,CARBON 15K 5% 1/6W
R205,239	1-247-863-00	RES,CARBON 22K 5% 1/6W
R277,278	1-247-864-00	RES,CARBON 24K 5% 1/6W
R45,46,47,48,49,50,51, 52,242,245	1-247-865-00	RES,CARBON 27K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(EQ-02 BOARD,BVH-2000PS,2180PS/CARD RACK)		
R200,201,236	1-247-866-00	RES,CARBON 30K 5% 1/6W
R288	1-247-867-00	RES,CARBON 33K 5% 1/6W
R237	1-247-876-00	RES,CARBON 75K 5% 1/6W
R246,272,273,274,291, 292,295	1-247-879-00	RES,CARBON 100K 5% 1/6W
R290	1-247-882-00	RES,CARBON 130K 5% 1/6W
R218	1-247-888-00	RES,CARBON 240K 5% 1/6W
R229	1-247-889-00	RES,CARBON 270K 5% 1/6W
R340	1-249-414-11	RES,CARBON 560 5% 1/6W
R10,11,21,22,23,24,34, 35,173,178,181,182, 183,184,185,186,187, 216,235,238,243,244, 326,327,328,329,330, 331,333	1-249-429-11	RES,CARBON 10K 5% 1/6W
L5	1-408-399-00	INDUCTOR,MICRO,1.5 5%
L12,13,14,15,16	1-408-402-00	INDUCTOR,MICRO,2.7 5%
L3,4	1-408-421-00	INDUCTOR,MICRO,100 5%
L6,7	1-408-422-00	INDUCTOR,MICRO,120 5%
L10	1-408-658-00	INDUCTOR,VAR,2.7
LV1,2,3,4	1-408-659-00	INDUCTOR,VAR,3.3
DL1	1-415-275-00	DELAY LINE,28nS
DL2	1-415-276-00	DELAY LINE,56nS
L1,2,8	1-421-370-00	COIL,CHOKE
FB1,2,3	1-535-178-00	FERRITE BEAD
S1	1-553-441-00	SWITCH,TOGGL
2pcs	1-563-859-11	RECEPTACLE CONNECTOR 2P
JP1,2,3	1-566-385-11	PIN,CONNECTOR 2P
TH1	1-800-202-00	THERMISTOR,S-10K
4pcs	2-282-313-00	KNOB,CONTROL
TP1,2,3,4,5,8,10,11,12, 15,16,21,22	() 3-657-703-01	TERMINAL,TP
TPE1,2,3,4,5,6	() 3-673-805-11	TERMINAL,TP

Ref.No. or Q'ty	Part No.	Description	Ref.No. or Q'ty	Part No.	Description
(EQ-02 BOARD, BVH-2000PS, 2180PS/CARD RACK)			(EQ-02 BOARD, BVH-2000PS, 2180PS/CARD RACK)		
1pc	() 3-673-865-00	LEVER, WITH PIN	Q3, 6, 7, 10, 29, 30, 31, 32,		
1pc	() 3-673-867-00	PLATE, INDICATION, PC BOARD	35	8-761-622-00	TRANSISTOR 2SC1636
1pc	() 3-674-613-01	LABEL(EQ-02), PC BOARD			
TP6	() 3-693-032-01	TERMINAL, TP	Q2, 5, 9, 12, 15, 16, 18, 19,		
1pc	() 3-693-056-01	LABEL NS (EQ-02), PC BOARD	20, 23, 24, 27, 33, 34, 37,		
			40	8-765-300-00	TRANSISTOR 2SC2009
4pcs	7-621-737-08	SET SCREW, 2.6x3, FLAT POINT	Q28, 36	8-769-192-00	TRANSISTOR 2SK43-2
4pcs	7-621-981-15	SCREW, PSW2.6x6			
2pcs	7-626-317-21	PIN, SPRING 2.5x8			
D5	8-719-100-27	DIODE RD4.7E-B2	<u>EQ-11 Board</u>		
D1	8-719-168-07	DIODE RD6.8E-B	1pc	() A-6026-051-A	MOUNTED PCB, EQ-11
D2, 3	8-719-815-55	DIODE 1S1555			
D6	8-719-815-80	DIODE 1S1587	C182	1-109-531-00	CAP, MICA 68PF 5% 100V
Q17	8-729-105-72	TRANSISTOR 2SK523-L1	C183	1-109-538-00	CAP, MICA 130PF 5% 100V
Q25, 26, 38, 39			C184	1-109-545-00	CAP, MICA 270PF 5% 100V
	8-729-110-53	TRANSISTOR 2SA1005	C173, 177	1-124-236-00	CAP, ELECT 47 20% 16V
Q1, 4, 8, 11, 21, 22, 41			C171, 172, 174, 175, 176,		
	8-729-117-33	TRANSISTOR 2SC1733	178, 179, 180, 181, 185		
IC1, 17	8-759-001-16	IC MC10116L, ECL	1-162-596-00		CAP, CERAMIC 0.022 25V
IC21	8-759-001-98	IC MC10198L			
IC3	8-759-015-95	IC MC1595L	RV41	1-228-452-00	RES, ADJ, CERMET 50
IC22, 24	8-759-900-00	IC SN74LS00N, TTL	R355	1-247-800-00	RES, CARBON 51 5% 1/6W
IC15	8-759-900-04	IC SN74LS04N, TTL	R344	1-247-811-00	RES, CARBON 150 5% 1/6W
IC16, 18	8-759-900-08	IC SN74LS08N, TTL	R356	1-247-814-00	RES, CARBON 200 5% 1/6W
IC23	8-759-900-19	IC SN74128N, TTL	R349	1-247-819-00	RES, CARBON 330 5% 1/6W
IC25, 26	8-759-901-23	IC SN74LS123N, TTL	R351	1-247-820-00	RES, CARBON 360 5% 1/6W
IC19, 20	8-759-902-21	IC SN74LS221N, TTL			
IC27	8-759-906-01	IC TL601CP	R357	1-247-826-00	RES, CARBON 620 5% 1/6W
IC11, 12	8-759-906-07	IC TL607CP	R341, 342, 343, 350		
IC13	8-759-926-10	IC TL610CP		1-247-831-00	RES, CARBON 1K 5% 1/6W
IC6	8-759-931-02	IC CA3102E	R354	1-247-833-00	RES, CARBON 1.2K 5% 1/6W
IC4	8-759-939-93	IC AD9685BD	R348	1-247-837-00	RES, CARBON 1.8K 5% 1/6W
IC14	8-759-942-65	IC SN74265N, TTL	R347	1-247-839-00	RES, CARBON 2.2K 5% 1/6W
IC8	8-759-951-07	IC SN75107AN			
IC5, 10	8-759-990-82	IC TL082CP	R345	1-247-846-00	RES, CARBON 4.3K 5% 1/6W
IC7, 9	8-759-990-84	IC TL084CN	R346	1-247-852-00	RES, CARBON 7.5K 5% 1/6W
			R352, 353	1-249-405-11	RES, CARBON 100 5% 1/6W
			L21	1-408-401-00	INDUCTOR, MICRO 2.2
			L22	1-408-410-00	INDUCTOR, MICRO 12
			S2	1-570-374-11	SWITCH, SLIDE
			CN2	() 1-566-086-11	PLUG, DIL 8P
			CN1	() 1-566-087-11	PLUG, DIL 14P
			D11	8-719-156-07	DIODE RD5.6E-B
			Q51, 52, 53	8-729-606-33	TRANSISTOR 2SC2603
			IC31	8-759-939-93	IC AD9685BD

Ref.No.
or Q'ty Part No. Description

DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

Board No; 1-606-661-11,12,13,14

1pc () A-6011-068-B COMPLETE PCB,DM-25
(COMPLETE PCB,DM-25 includes MOUNT PCB,DM-51.)

1pc () A-6026-048-A MOUNT PCB,DM-51

(COMPLETE PCB,DM-25 consists of the following parts.)

1pc () X-3673-641-0 PLATE ASSY,SHIELD

C14,69 1-102-106-00 CAP,CERAMIC
100PF 10% 50V

C76 1-107-026-00 CAP,MICA
5.1PF +/-0.5PF 500V

C144 1-107-080-00 CAP,MICA 62PF 5% 50V

C22,67,118,127,145

1-107-158-00 CAP,MICA 30PF 5% 500V

C81,82 1-107-159-00 CAP,MICA 33PF 5% 500V

C117,119 1-107-202-00 CAP,MICA 10PF 5% 500V

C92 1-107-204-00 CAP,MICA 12PF 5% 500V

C56,146 1-107-209-00 CAP,MICA 20PF 5% 500V

C24 1-108-603-00 CAP,MYLAR 0.1 5% 50V

C91 1-109-529-00 CAP,MICA 56PF 5% 100V

C509 1-109-530-00 CAP,MICA 62PF 5% 100V

C55 1-109-531-00 CAP,MICA 68PF 5% 100V

C26,104 1-109-535-00 CAP,MICA 100PF 5% 100V

C115 1-109-539-00 CAP,MICA 150PF 5% 100V

C10,11,31,53,58,100,503,

510,513 1-109-541-00 CAP,MICA 200PF 5% 100V

C504,507,511

1-109-542-00 CAP,MICA 220PF 5% 100V

C83 1-109-546-00 CAP,MICA 300PF 5% 100V

C45 1-109-548-00 CAP,MICA 360PF 5% 100V

C28 1-109-554-00 CAP,MICA 510PF 5% 100V

C60 1-109-602-00 CAP,MICA 0.001 1% 100V

C131 1-123-306-00 CAP,ELECT 47 10V

C7,63,110

1-123-307-00 CAP,ELECT 100 10V

C1,4 1-123-332-00 CAP,ELECT 47 25V

Ref.No.
or Q'ty Part No. Description

(DM-25 BOARD,CARD RACK)

(Board No.1-606-661-11,12,13,14)

C45 1-109-548-00 CAP,MICA 360PF 5% 100V

C28 1-109-554-00 CAP,MICA 510PF 5% 100V

C60 1-109-602-00 CAP,MICA 0.001 1% 100V

C131 1-123-306-00 CAP,ELECT 47 10V

C7,63,110

1-123-307-00 CAP,ELECT 100 10V

C96,97,108

1-123-330-00 CAP,ELECT 22 25V

C1,4 1-123-332-00 CAP,ELECT 47 25V

C66,75,80,90,121,132

1-123-333-00 CAP,ELECT 100 25V

C30,140 1-123-379-00 CAP,ELECT 0.47 100V

C33 1-123-381-00 CAP,ELECT 2.2 100V

C9 1-123-567-00 CAP,ELECT 2200 10V

C73,74 1-123-829-00 CAP,ELECT,NONPOLAR
2.2 50V

C3,6 1-123-839-00 CAP,ELECT 1000 16V

CV2 1-141-240-00 CAP,TRIMMER 20PF

C13,15,19,20,21,23,25,
27,29,32,35,36,44,48,
52,57,59,61,62,64,65,
68,70,71,72,77,78,84,
85,86,87,88,89,93,94,
95,101,103,105,106,107,
109,112,113,114,116,
120,122,124,128,130,
133,136,137,138,139,

148 1-161-051-00 CAP,CERAMIC 0.01 10% 50V

C149 1-161-055-00 CAP,CERAMIC 0.022 10% 50V

C2,5,8 1-161-057-00 CAP,CERAMIC
0.033 10% 50V

R189,190,198

1-214-100-00 RES,METAL 47 1% 1/4W

R64,121,185,188

1-214-112-00 RES,METAL 150 1% 1/4W

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,CARD RACK)		
(Board No.1-606-661-11,12,13,14)		
R66	1-214-113-00	RES,METAL 160 1% 1/4W
R68,69	1-214-122-00	RES,METAL 390 1% 1/4W
R65	1-214-129-00	RES,METAL 750 1% 1/4W
R104	1-214-132-00	RES,METAL 1K 1% 1/4W
R213	1-214-138-00	RES,METAL 1.8K 1% 1/4W
R132,133	1-214-139-00	RES,METAL 2K 1% 1/4W
R41	1-214-140-00	RES,METAL 2.2K 1% 1/4W
R214	1-214-143-00	RES,METAL 3K 1% 1/4W
R42	1-214-144-00	RES,METAL 3.3K 1% 1/4W
R218	1-214-151-00	RES,METAL 6.2K 1% 1/4W
R43	1-214-155-00	RES,METAL 9.1K 1% 1/4W
R13,23,61,134,135,141	1-214-156-00	RES,METAL 10K 1% 1/4W
R40,59	1-214-160-00	RES,METAL 15K 1% 1/4W
R210	1-214-162-00	RES,METAL 18K 1% 1/4W
R30	1-214-165-00	RES,METAL 24K 1% 1/4W
R7	1-214-175-00	RES,METAL 62K 1% 1/4W
RV7,9	1-224-934-00	RES,VAR,METAL 100
RV4	1-224-935-00	RES,VAR,METAL 200
RV5,8,16	1-224-936-00	RES,VAR,METAL 500
RV14	1-224-937-00	RES,VAR,METAL 1K
RV3,6	1-224-939-00	RES,VAR,METAL 5K
RV2	1-224-940-00	RES,VAR,METAL 10K
RV10,11,15	1-224-941-00	RES,VAR,METAL 20K
RV12	1-224-942-00	RES,VAR,METAL 50K
RV1,13	1-224-943-00	RES,VAR,METAL 100K
RV17	1-224-978-00	RES,VAR,METAL 50
RB1	1-231-407-00	RES BLOCK,2.2Kx8
LPF1	1-235-014-00	FILTER,LOW-PASS 5MHz
LPF2	1-235-104-00	FILTER,LOW-PASS 7.5MHz
R118	1-247-767-00	RES,CARBON 2.2 5% 1/6W
R212	1-247-779-00	RES,CARBON 6.8 5% 1/6W
R70	1-247-787-00	RES,CARBON 15 5% 1/6W
R195	1-247-795-00	RES,CARBON 33 5% 1/6W
R90,91	1-247-800-00	RES,CARBON 51 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,CARD RACK)		
(Board No.1-606-661-11,12,13,14)		
R72,74,186	1-247-804-00	RES,CARBON 75 5% 1/6W
R57,106,110,122,123, 126,130,138,140,143, 145,161,164,168,184, 196,199,200,217	1-247-807-00	RES,CARBON 100 5% 1/6W
R71,73,75,89,149	1-247-811-00	RES,CARBON 150 5% 1/6W
R109,169	1-247-814-00	RES,CARBON 200 5% 1/6W
R166,215	1-247-817-00	RES,CARBON 270 5% 1/6W
R85,86,171	1-247-818-00	RES,CARBON 300 5% 1/6W
R177	1-247-819-00	RES,CARBON 330 5% 1/6W
R67,76,82,114	1-247-821-00	RES,CARBON 390 5% 1/6W
R160	1-247-823-00	RES,CARBON 470 5% 1/6W
R120,125	1-247-824-00	RES,CARBON 510 5% 1/6W
R129	1-247-825-00	RES,CARBON 560 5% 1/6W
R150	1-247-826-00	RES,CARBON 620 5% 1/6W
R175,181	1-247-827-00	RES,CARBON 680 5% 1/6W
R79,80,84,87,107,111, 112,113,116,117	1-247-829-00	RES,CARBON 820 5% 1/6W
R201	1-247-830-00	RES,CARBON 910 5% 1/6W
R9,11,50,51,54,108, 124,142,146,147,148, 152,187,193,197	1-247-831-00	RES,CARBON 1K 5% 1/6W
R77,81,88	1-247-832-00	RES,CARBON 1.1K 5% 1/6W
R78,83,115	1-247-836-00	RES,CARBON 1.6K 5% 1/6W

Ref.No. or Qty	Part No.	Description
(DM-25 BOARD,CARD RACK)		
(Board No.1-606-661-11,12,13,14)		
R5,16,17,56,102,127,128, 131,139,176,182	1-247-838-00	RES,CARBON 2K 5% 1/6W
R49	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R24,48,101,136	1-247-842-00	RES,CARBON 3K 5% 1/6W
R154	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R15,96,159,180	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R105	1-247-849-00	RES,CARBON 5.6K 5% 1/6W
R62	1-247-850-00	RES,CARBON 6.2K 5% 1/6W
R27,173	1-247-851-00	RES,CARBON 6.8K 5% 1/6W
R162,163	1-247-852-00	RES,CARBON 7.5K 5% 1/6W
R137	1-247-854-00	RES,CARBON 9.1K 5% 1/6W
R12,18,19,20,39,44,45, 46,58,100,156,157,158, 167,170,179,183,191, 194	1-247-855-00	RES,CARBON 10K 5% 1/6W
R98,153	1-247-858-00	RES,CARBON 13K 5% 1/6W
R1,2,25	1-247-859-00	RES,CARBON 15K 5% 1/6W
R55	1-247-862-00	RES,CARBON 20K 5% 1/6W
R63	1-247-863-00	RES,CARBON 22K 5% 1/6W
R32,34,192	1-247-866-00	RES,CARBON 30K 5% 1/6W
R36	1-247-867-00	RES,CARBON 33K 5% 1/6W
R174,208	1-247-870-00	RES,CARBON 43K 5% 1/6W
R144,151	1-247-871-00	RES,CARBON 47K 5% 1/6W
R202	1-247-872-00	RES,CARBON 51K 5% 1/6W
R52	1-247-878-00	RES,CARBON 91K 5% 1/6W
R26,28,38,47,53,60,103, 178	1-247-879-00	RES,CARBON 100K 5% 1/6W
R99	1-247-882-00	RES,CARBON 130K 5% 1/6W
R210	1-247-890-00	RES,CARBON 300K 5% 1/6W
R22	1-247-892-00	RES,CARBON 360K 5% 1/6W

Ref.No. or Qty	Part No.	Description
(DM-25 BOARD,CARD RACK)		
(Board No.1-606-661-11,12,13,14)		
R21,97	1-247-903-00	RES,CARBON 1M 5% 1/6W
L7	1-408-405-00	INDUCTOR,MICRO,4.7 5%
L12	1-408-409-00	INDUCTOR,MICRO,10 5%
L5,6	1-408-416-00	INDUCTOR,MICRO,39 5%
L11	1-408-420-00	INDUCTOR,MICRO,82 5%
L10	1-408-421-00	INDUCTOR,MICRO,100 5%
L8,9	1-408-426-00	INDUCTOR,MICRO,270 5%
L1,2,3	1-409-339-00	COIL,SN
SW2A	1-516-925-21	SWITCH,DIP,8-CKT
X1	1-527-935-00	CRYSTAL,8.9MHz
FB1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20	1-535-178-00	FERRITE BEAD
SW1	1-553-441-00	SWITCH,TOGGLE
TP1,2,3,4,5,6,7,8,9,10, 11,12,13,14	() 3-673-805-01	TERMINAL,TP
TPE1,2,3,4,5,6	() 3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION, PC BOARD
1pc	() 3-674-614-00	LABEL(DM-25),PC BOARD
6pcs	4-866-397-00	CUSHION,LED
4pcs	7-621-981-15	SCREW,PSW 2.6x6
2pcs	() 7-626-317-21	PIN,SPRING 2.5x8
D10	8-719-100-27	DIODE RD4,7E-B2
D6,9	8-719-100-40	DIODE RD6,8E-B1
D12	8-719-139-07	DIODE RD3,9E-B
D1,2,3,4,5,7,8,11,13	8-719-815-55	DIODE 1S1555
Q12,13,14	8-729-105-71	TRANSISTOR 2SK523-K2
Q3,4,9	8-729-110-53	TRANSISTOR 2SA1005
Q15	8-729-699-51	TRANSISTOR 2SA995

Ref.No. or Qty	Part No.	Description
(DM-25 BOARD,CARD RACK)		
(Board No.1-606-661-11,12,13,14)		
IC12,13	8-743-930-00	IC BX3930
IC1,15,16,17	8-743-931-10	IC BX3931A
IC2,6	8-759-001-16	IC MC10116L,ECL
IC4	8-759-001-98	IC MC10198L
IC7	8-759-014-96	IC MC1496P
IC3A	8-759-245-28	IC TC4528BP,CMOS
IC5	8-759-301-17	IC HD10117,ECL
IC1C,2D,3C,5B	8-759-900-00	IC SN74LS00N,TTL
IC1D	8-759-900-04	IC SN74LS04N,TTL
IC4E	8-759-900-08	IC SN74LS08N,TTL
IC1A,3B	8-759-900-10	IC SN74LS10N,TTL
IC2E	8-759-900-74	IC SN74LS74AN,TTL
IC3D,5A	8-759-901-23	IC SN74LS123N,TTL
IC2B	8-759-901-51	IC SN74LS151N,TTL
IC2C	8-759-901-63	IC SN74LS163AN,TTL
IC1B,4A,4B,4C,4D,5C,5D, 5E	8-759-902-21	IC SN74LS221N,TTL
IC9	8-759-926-10	IC TL610CP
IC10,1E	8-759-951-07	IC SN75107AN
IC14	8-759-974-06	IC SN7406N,TTL
IC3,8,11	8-759-990-82	IC TL082CP
IC2F,3F	8-759-990-84	IC TL084CN
Q11	8-761-622-00	TRANSISTOR 2SC1636
Q1,5,6,7,8,10	8-765-300-00	TRANSISTOR 2SC2009

Ref.No. or Qty	Part No.	Description
<u>DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)</u>		
Board No; 1-606-661-15 & up		
1pc	() A-6011-068-C	COMPLETE PCB, DM-25 (COMPLETE PCB,DM-25 includes MOUNT PCB,DM-51)
1pc	() A-6026-048-A	MOUNT PCB,DM-51 (COMPLETE PCB,DM-25 consists of the following parts.)
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C14,69	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C76	1-107-026-00	CAP,MICA 5.1PF +/-0.5PF 500V
C144	1-107-080-00	CAP,MICA 62PF 5% 50V
C145	1-107-084-00	CAP,MICA 91PF 5% 50V
C22,67,118,127,145	1-107-158-00	CAP,MICA 30PF 5% 500V
C81,82	1-107-159-00	CAP,MICA 33PF 5% 500V
C117,119	1-107-202-00	CAP,MICA 10PF 5% 500V
C92	1-107-204-00	CAP,MICA 12PF 5% 500V
C146	1-107-209-00	CAP,MICA 20PF 5% 500V
C91	1-109-529-00	CAP,MICA 56PF 5% 100V
C509	1-109-530-00	CAP,MICA 62PF 5% 100V
C55	1-109-531-00	CAP,MICA 68PF 5% 100V
C26,104	1-109-535-00	CAP,MICA 100PF 5% 100V
C10,11,31,53,58,100,115, 503,510,513	1-109-541-00	CAP,MICA 200PF 5% 100V
C504,507,511	1-109-542-00	CAP,MICA 220PF 5% 100V
C83	1-109-546-00	CAP,MICA 300PF 5% 100V
C45	1-109-548-00	CAP,MICA 360PF 5% 100V
C28	1-109-554-00	CAP,MICA 510PF 5% 100V
C60	1-109-602-00	CAP,MICA 1000PF 1% 100V
C501,502	1-109-622-00	CAP,MICA 1200PF 1% 100V
C96,97,108,152	1-123-317-00	CAP,ELECT 22 20% 16V

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,BVH-2000PS,2180PS/CARD RACK) (Board No.1-606-661-15 & up)		
C30,140	1-123-351-00	CAP,ELECT 0.47 20% 50V
C33,515	1-123-353-00	CAP,ELECT 2.2 20% 50V
C9	1-123-567-00	CAP,ELECT 2200 20% 10V
C3,6	1-123-839-00	CAP,ELECT 1000 20% 16V
C7,63,66,75,80,90,110, 121,132	1-124-445-00	CAP,ELECT 100 20% 16V
C1,4,131	1-124-474-00	CAP,ELECT NONPOLAR 47 20% 16V
C73,74	1-124-656-00	CAP,ELECT NONPOLAR 2.2 20% 50V
C505	1-130-471-00	CAP,MYLAR 0.001 5% 50V
C516,521	1-130-472-00	CAP,MYLAR 0.0012 5% 50V
C43	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C519,520	1-130-477-00	CAP,MYLAR 0.0033 5% 50V
C39	1-130-486-00	CAP,MYLAR 0.018 5% 50V
C54	1-130-487-00	CAP,MYLAR 0.022 5%
C24	1-130-495-00	CAP,MYLAR 0.1 5% 50V
CV2	1-141-240-00	CAP,TRIMMER 20PF
C62,68,70,85,86,87,88, 89,93,95,139,149	1-161-051-00	CAP,CERAMIC 0.01 10% 50V
C2,5,8	1-161-057-00	CAP,CERAMIC 0.033 10% 50V
C523	1-162-306-31	CAP,CERAMIC 0.01 30% 16V
C13,15,19,20,21,23,25, 27,29,32,35,36,44,48, 59,61,64,65,71,72,77, 78,84,94,101,103,105, 106,107,109,112,113, 114,116,120,122,124, 128,130,136,137,138, 148,506,508,512,514, 517,518	1-162-596-00	CAP,CERAMIC 0.022 25V
R224	1-214-526-00	RES,METAL 51 1% 1/8W
R72,74	1-214-530-00	RES,METAL 75 1% 1/8W
R71,73,75	1-214-537-00	RES,METAL 150 1% 1/8W
R212	1-215-382-00	RES,METAL 24 1% 1/6W
R189,190,198	1-215-389-00	RES,METAL 47 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,BVH-2000PS,2180PS/CARD RACK) (Board No.1-606-661-15 & up)		
R64,121,185,188	1-215-401-11	RES,METAL 150 1% 1/6W
R66	1-215-402-00	RES,METAL 160 1% 1/6W
R68,69	1-215-411-00	RES,METAL 390 1% 1/6W
R65	1-215-418-00	RES,METAL 750 1% 1/6W
R104	1-215-421-00	RES,METAL 1K 1% 1/6W
R213	1-215-427-00	RES,METAL 1.8K 1% 1/6W
R132,133	1-215-428-00	RES,METAL 2K 1% 1/6W
R41	1-215-429-00	RES,METAL 2.2K 1% 1/6W
R214	1-215-432-00	RES,METAL 3K 1% 1/6W
R42	1-215-433-00	RES,METAL 3.3K 1% 1/6W
R59	1-215-438-00	RES,METAL 5.1K 1% 1/6W
R218	1-215-440-00	RES,METAL 6.2K 1% 1/6W
R43	1-215-444-00	RES,METAL 9.1K 1% 1/6W
R13,23,59,61,134,135, 141	1-215-445-00	RES,METAL 10K 1% 1/6W
R509	1-215-448-00	RES,METAL 13K 1% 1/6W
R40,506	1-215-449-00	RES,METAL 15K 1% 1/6W
R210	1-215-451-00	RES,METAL 18K 1% 1/6W
R504	1-215-452-00	RES,METAL 20K 1% 1/6W
R502	1-215-454-00	RES,METAL 24K 1% 1/6W
R521	1-215-455-00	RES,METAL 27K 1% 1/6W
R507	1-215-456-00	RES,METAL 30K 1% 1/6W
R505	1-215-459-00	RES,METAL 39K 1% 1/6W
R503,508,510	1-215-460-00	RES,METAL 43K 1% 1/6W
R7,501,519	1-215-464-00	RES,METAL 62K 1% 1/6W
R511,512	1-215-469-00	RES,METAL 100K 1% 1/6W
R517	1-215-476-00	RES,METAL 200K 1% 1/6W
RV7	1-224-934-00	RES,VAR,METAL 100
RV4	1-224-935-00	RES,VAR,METAL 200
RV17	1-228-452-00	RES,VAR,CERMET 50
RV5,8,16	1-230-839-11	RES,VAR,CERMET 500
RV14	1-230-840-11	RES,VAR,CERMET 1K
RV3,6,502	1-230-842-11	RES,VAR,CERMET 5K

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,BVH-2000PS,2180PS/CARD RACK) (Board No.1-606-661-15 & up)		
RV501,503	1-230-843-11	RES,VAR,CERMET 10K
RV10,11,15	1-230-844-11	RES,VAR,CERMET 20K
RV12	1-230-845-11	RES,VAR,CERMET 50K
RV1,13	1-230-846-11	RES,VAR,CERMET 100K
RV9	1-230-837-11	RES,VAR,METAL 100
RB1	1-231-407-00	RES,BLOCK 2.2x8
LPF1	1-235-014-00	FILTER,LOW PASS 5MHz
LPF2	1-235-104-00	FILTER,LOW PASS 7.5MHz
R212	1-247-779-00	RES,CARBON 6.8 5% 1/6W
R70	1-247-787-00	RES,CARBON 15 5% 1/6W
R195	1-247-795-00	RES,CARBON 33 5% 1/6W
R90,91	1-247-800-00	RES,CARBON 51 5% 1/6W
R186	1-247-804-00	RES,CARBON 75 5% 1/6W
R57,106,110,122,123,126, 130,138,140,143,145, 161,164,168,184,196, 199,200,217	1-247-807-00	RES,CARBON 100 5% 1/6W
R89,149	1-247-811-00	RES,CARBON 150 5% 1/6W
R109,169	1-247-814-00	RES,CARBON 200 5% 1/6W
R166,215	1-247-817-00	RES,CARBON 270 5% 1/6W
R85,86,171	1-247-818-00	RES,CARBON 300 5% 1/6W
R177	1-247-819-00	RES,CARBON 330 5% 1/6W
R67,76,82,114	1-247-821-00	RES,CARBON 390 5% 1/6W
R160	1-247-823-00	RES,CARBON 470 5% 1/6W
R120,125	1-247-824-00	RES,CARBON 510 5% 1/6W
R129	1-247-825-00	RES,CARBON 560 5% 1/6W
R150	1-247-826-00	RES,CARBON 620 5% 1/6W
R175,181	1-247-827-00	RES,CARBON 680 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,BVH-2000PS,2180PS/CARD RACK) (Board No.1-606-661-15 & up)		
R79,80,84,87,107,111, 112,113,116,117	1-247-829-00	RES,CARBON 820 5% 1/6W
R201	1-247-830-00	RES,CARBON 910 5% 1/6W
R9,11,50,51,108,124,142, 146,147,148,152,187, 197	1-247-831-00	RES,CARBON 1K 5% 1/6W
R77,81,88	1-247-832-00	RES,CARBON 1.1K 5% 1/6W
R78,83,115	1-247-836-00	RES,CARBON 1.6K 5% 1/6W
R5,16,17,102,127,128, 131,139,176,182	1-247-838-00	RES,CARBON 2K 5% 1/6W
R49	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R24,48,101,136	1-247-842-00	RES,CARBON 3K 5% 1/6W
R154	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R6	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R15,96,159,180	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R105	1-247-849-00	RES,CARBON 5.6K 5% 1/6W
R27,173	1-247-851-00	RES,CARBON 6.8K 5% 1/6W
R162,163	1-247-852-00	RES,CARBON 7.5K 5% 1/6W
R137	1-247-854-00	RES,CARBON 9.1K 5% 1/6W
R98,153	1-247-858-00	RES,CARBON 13K 5% 1/6W
R1,2,25	1-247-859-00	RES,CARBON 15K 5% 1/6W
R55,63	1-247-862-00	RES,CARBON 20K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,BVH-2000PS,2180PS/CARD RACK) (Board No.1-606-661-15 & up)		
R32,192	1-247-866-00	RES,CARBON 30K 5% 1/6W
R174	1-247-870-00	RES,CARBON 43K 5% 1/6W
R202	1-247-872-00	RES,CARBON 51K 5% 1/6W
R26,28,38,47,60,103,178	1-247-879-00	RES,CARBON 100K 5% 1/6W
R99	1-247-882-00	RES,CARBON 130K 5% 1/6W
R211	1-247-890-00	RES,CARBON 300K 5% 1/6W
R22	1-247-892-00	RES,CARBON 360K 5% 1/6W
R21,97	1-247-903-00	RES,CARBON 1M 5% 1/6W
R12,18,19,20,39,44,45, 46,58,100,156,157,158, 167,170,179,183,191, 194,221,222,223,513, 514,516,518	1-249-429-11	RES,CARBON 10K 5% 1/6W
R144,151	1-249-437-11	RES,CARBON 47K 5% 1/6W
L7	1-408-405-00	INDUCTOR,MICRO 4.7
L12	1-408-409-00	INDUCTOR,MICRO 10
L5,6	1-408-416-00	INDUCTOR,MICRO 39
L11	1-408-420-00	INDUCTOR,MICRO 82
L10	1-408-421-00	INDUCTOR,MICRO 100
L8,9	1-408-426-00	INDUCTOR,MICRO 270
L1,2,3	1-421-370-00	COIL,CHOKE
X1	1-527-935-00	CRYSTAL 8.900MHZ
FB1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20	1-535-178-00	FERRITE BEAD
SW1	1-553-441-00	SWITCH,TOGGLE
SW2A	1-570-623-11	SWITCH,DIP,8-CKT
TP1,2,3,4,5,6,7,8,9,10, 11,12,13,14,16,17,18, 501,502,503,504,505 () 3-657-703-01		TERMINAL,TP
TPE1,2,3,4 () 3-673-805-11		TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION,PC BOARD
1pc	() 3-674-614-00	LABEL (DM-25),PC BOARD

Ref.No. or Q'ty	Part No.	Description
(DM-25 BOARD,BVH-2000PS,2180PS/CARD RACK) (Board No.1-606-661-15 & up)		
4pcs	7-621-981-15	SCREW,PSW 2.6x6
2pcs	7-626-317-21	PIN,SPRING 2.5x8
D10	8-719-100-27	DIODE RD4.7E-B
D6,9	8-719-100-40	DIODE RD6.8E-B1
D12	8-719-139-07	DIODE RD3.9E-B
D1,2,3,4,5,7,8,11,13 8-719-815-55		DIODE 1S1555
Q12,13,14	8-729-105-71	TRANSISTOR 2SK523-K2
Q3,4,9	8-729-110-53	TRANSISTOR 2SA1005
Q15	8-729-699-51	TRANSISTOR 2SA995
IC12,13	8-749-930-00	IC BX3930
IC1,15,16,17 8-749-931-10		IC BX3931
IC2,6	8-759-001-16	IC MC10116L,ECL
IC4	8-759-001-98	IC MC10198L
IC7	8-759-014-96	IC MC1496P
IC1C	8-759-245-28	IC TC4528BP,CMOS
IC5	8-759-301-17	IC HD10117,ECL
IC1D,3A,3E,4A,4D,5E 8-759-900-00		IC SN74LS00N,TTL
IC3F	8-759-900-04	IC SN74LS04N,TTL
IC4G	8-759-900-08	IC SN74LS08N,TTL
IC2C	8-759-900-10	IC SN74LS10N,TTL
IC1F,4C,5F 8-759-900-74		IC SN74LS74AN,TTL
IC3C,5D	8-759-901-23	IC SN74LS123N,TTL
IC2B	8-759-901-51	IC SN74LS151N,TTL
IC3B	8-759-901-63	IC SN74LS163AN,TTL
IC1B,1E,2D,2E,2F,3D,4B, 4E,4F,5B,5C,5G 8-759-902-21		IC SN74LS221N,TTL
IC9	8-759-926-10	IC TL610CP
IC10,1G	8-759-951-07	IC SN75107AN,TTL
IC14	8-759-974-06	IC SN7406N,TTL
IC3,8,11	8-759-990-82	IC TL082CP
IC2G,3G	8-759-990-84	IC TL084CN
Q11	8-761-622-00	TRANSISTOR 2SC1636
Q1,5,6,7,8,10 8-765-300-00		TRANSISTOR 2SC2009

Ref.No. or Q'ty	Part No.	Description
<u>MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)</u>		
1pc	() A-6011-069-A	COMPLETE PCB,MD-14
	() A-6011-096-A	COMPLETE PCB,MD-14
		(For BVH-2000PS 10,12,14 model)
(This assembly includes the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C82,128	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C3,12	1-107-044-00	CAP,MICA 3.3PF +/-0.5PF 500V
C501	1-107-046-00	CAP,MICA 4.7PF +/-0.5PF 500V
C42	1-107-048-00	CAP,MICA 6.8PF +/-0.5PF 500V
C18	1-107-074-00	CAP,MICA 36PF 5% 50V
C507	1-107-077-00	CAP,MICA 47PF 5% 50V
C111	1-107-082-00	CAP,MICA 75PF 5% 50V
C99,122	1-107-158-00	CAP,MICA 30PF 5% 500V
C69	1-107-164-00	CAP,MICA 51PF 5% 500V
C70	1-107-167-00	CAP,MICA 75PF 5% 500V
C93,150	1-107-169-00	CAP,MICA 100PF 5% 500V
C35,41	1-107-202-00	CAP,MICA 10PF 5% 500V
C23	1-107-207-00	CAP,MICA 16PF 5% 500V
C94	1-108-555-00	CAP,MYLAR 0.001 5% 50V
C138	1-108-563-00	CAP,MYLAR 0.0022 5% 50V
C88	1-108-567-00	CAP,MYLAR 0.0033 5% 50V
C143	1-108-571-00	CAP,MYLAR 0.0047 5% 50V
C135	1-108-573-00	CAP,MYLAR 0.0056 5% 50V
C137	1-108-575-00	CAP,MYLAR 0.0068 5% 50V
C78,79	1-108-579-00	CAP,MYLAR 0.01 5% 50V
C145	1-108-593-00	CAP,MYLAR 0.039 5% 50V
C504	1-109-525-00	CAP,MICA 39PF 5% 100V
C124,133	1-109-528-00	CAP,MICA 51PF 5% 100V
C8	1-109-531-00	CAP,MICA 68PF 5% 100V
C506	1-109-534-00	CAP,MICA 91PF 5% 100V
C102,136	1-109-535-00	CAP,MICA 100PF 5% 100V
C62	1-109-538-00	CAP,MICA 130PF 5% 100V

Ref.No. or Q'ty	Part No.	Description
<u>(MD-14 BOARD,CARD RACK)</u>		
C134,139,142		
	1-109-541-00	CAP,MICA 200PF 5% 100V
C125,127	1-109-548-00	CAP,MICA 360PF 5% 100V
C25,74	1-109-553-00	CAP,MICA 470PF 5% 100V
C100	1-109-557-00	CAP,MICA 680PF 5% 100V
C60,108,401		
	1-109-558-00	CAP,MICA 750PF 5% 100V
C505	1-109-559-00	CAP,MICA 820PF 5% 100V
C19	1-109-682-41	CAP,MICA 240PF 1% 500V
C149	1-123-307-00	CAP,ELECT 100 10V
C9,45,48	1-123-322-00	CAP,ELECT 330 16V
C73,75,76,77,91,92,104, 131,132,508,509		
	1-123-330-00	CAP,ELECT 22 25V
C51,54	1-123-332-00	CAP,ELECT 47 25V
C10,14,17,21,27,29,30, 65,66,71,97,109,114		
	1-123-333-00	CAP,ELECT 100 25V
C147	1-123-567-00	CAP,ELECT 2200 10V
C50	1-123-828-00	CAP,ELECT,NONPOLAR 1 50V
C53,56	1-123-839-00	CAP,ELECT 1000 16V
C28,32,84		
	1-123-880-11	CAP,ELECT,NONPOLAR 47 16V
CV1,2,3	1-141-240-00	CAP,TRIMMER 20PF
CV4	1-141-260-00	CAP,TRIMMER 60PF
C1,2,4,5,6,7,11,13,15, 16,20,22,24,26,31,33, 34,36,37,38,39,40,46, 47,49,58,59,63,64,67, 72,80,81,83,85,86,87, 89,90,95,96,98,101, 103,105,107,110,112, 113,115,116,117,118, 119,120,121,123,126, 129,130,140,141,144, 146		
	1-161-051-00	CAP,CERAMIC 0.01 10% 50V

Ref.No. or Qty	Part No.	Description
(MD-14 BOARD,CARD RACK)		
C502,503	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
C52,55,148	1-161-057-00	CAP,CERAMIC 0.033 10% 50V
C61,68	1-161-483-00	CAP,CERAMIC 0.1 10% 50V
R27	1-214-106-00	RES,METAL 82 1% 1/4W
R201	1-214-117-00	RES,METAL 240 1% 1/4W
R29	1-214-130-00	RES,METAL 820 1% 1/4W
R402	1-214-133-00	RES,METAL 1.1K 1% 1/4W
R49,61	1-214-137-00	RES,METAL 1.6K 1% 1/4W
R28	1-214-140-00	RES,METAL 2.2K 1% 1/4W
R145	1-214-141-00	RES,METAL 2.4K 1% 1/4W
R243	1-214-164-00	RES,METAL 22K 1% 1/4W
R401	1-214-177-00	RES,METAL 75K 1% 1/4W
R19,20	1-214-835-00	RES,METAL 62 1% 1/2W
R301,302	1-215-437-00	RES,METAL 4.7K 1% 1/4W
RV9,17	1-224-934-00	RES,VAR,METAL 100
RV20	1-224-935-00	RES,VAR,METAL 200
RV11,19	1-224-937-00	RES,VAR,METAL 1K
RV12	1-224-938-00	RES,VAR,METAL 2K
RV14,15	1-224-940-00	RES,VAR,METAL 10K
RV23	1-224-942-00	RES,VAR,METAL 50K
RV1	1-224-978-00	RES,VAR,METAL 50
RV10,18	1-230-739-11	RES,VAR,CARBON 1K
RV4	1-230-838-11	RES,VAR,METAL 200
RV7	1-230-839-11	RES,VAR,METAL 500
RV5	1-230-840-11	RES,VAR,METAL 1K
RV2,6,13,21	1-230-842-11	RES,VAR,METAL 5K
RV3,22	1-230-843-11	RES,VAR,METAL 10K
FL1	1-235-104-00	FILTER,LOW-PASS 7.5MHz
R110,120,200,211	1-247-783-00	RES,CARBON 10 5% 1/6W
R403	1-247-787-00	RES,CARBON 15 5% 1/6W
R257	1-247-790-00	RES,CARBON 20 5% 1/6W

Ref.No. or Qty	Part No.	Description
(MD-14 BOARD,CARD RACK)		
R57,99,100	1-247-791-00	RES,CARBON 22 5% 1/6W
R104,195	1-247-795-00	RES,CARBON 33 5% 1/6W
R123,216	1-247-799-00	RES,CARBON 47 5% 1/6W
R194,253	1-247-800-00	RES,CARBON 51 5% 1/6W
R1,6,35,84,112	1-247-804-00	RES,CARBON 75 5% 1/6W
R2,3,4,5,8,10,11,18,30, 31,32,38,45,54,56,58, 63,64,65,67,68,75,85, 90,103,105,106,107,108, 109,112,117,135,136, 154,175,196,197,198, 199,203,205,208,212, 230,232,250	1-247-807-00	RES,CARBON 100 5% 1/6W
R127,129,530	1-247-809-00	RES,CARBON 120 5% 1/6W
R34,207	1-247-811-00	RES,CARBON 150 5% 1/6W
R16,32,95,251,514	1-247-814-00	RES,CARBON 200 5% 1/6W
R66,121	1-247-817-00	RES,CARBON 270 5% 1/6W
R15,33,96,111,184,185, 224,225	1-247-818-00	RES,CARBON 300 5% 1/6W
R41,52,53,59,60	1-247-819-00	RES,CARBON 330 5% 1/6W
R7,17	1-247-820-00	RES,CARBON 360 5% 1/6W
R131,146,188,223	1-247-821-00	RES,CARBON 390 5% 1/6W
R122,213	1-247-822-00	RES,CARBON 430 5% 1/6W
R124,134	1-247-824-00	RES,CARBON 510 5% 1/6W
R39,46	1-247-825-00	RES,CARBON 560 5% 1/6W
R87,113,125,126,148,149, 150,151,204,217,218, 219,220,221,255	1-247-829-00	RES,CARBON 820 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(MD-14 BOARD,CARD RACK)		
R9,25,55,79,80,88,93,94, 114,137,141,166,169, 170,190,192,202,209, 215,254,501	1-247-831-00	RES,CARBON 1K 5% 1/6W
R130,147,229	1-247-832-00	RES,CARBON 1.1K 5% 1/6W
R89,128	1-247-833-00	RES,CARBON 1.2K 5% 1/6W
R50,81,155,179	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R44,51,62,91,132,222	1-247-836-00	RES,CARBON 1.6K 5% 1/6W
R97,98,115,143,180,206, 237	1-247-838-00	RES,CARBON 2K 5% 1/6W
R72,78,214	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R189,191	1-247-840-00	RES,CARBON 2.4K 5% 1/6W
R193	1-247-841-00	RES,CARBON 2.7K 5% 1/6W
R158,162,177,178	1-247-842-00	RES,CARBON 3K 5% 1/6W
R26,83,92	1-247-843-00	RES,CARBON 3.3K 5% 1/6W
R22	1-247-844-00	RES,CARBON 3.6K 5% 1/6W
R42,246	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R14	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R40,171,174,181,245	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R101,102	1-247-850-00	RES,CARBON 6.2K 5% 1/6W
R236	1-247-852-00	RES,CARBON 7.5K 5% 1/6W
R37	1-247-853-00	RES,CARBON 8.2K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(MD-14 BOARD,CARD RACK)		
R36,47,48,70,73,74,76, 77,86,142,144,156,159, 161,163,165,168,173, 176,182,186,187,226, 231,240,241,242,247, 248,249,256,502	1-247-855-00	RES,CARBON 10K 5% 1/6W
R244	1-247-858-00	RES,CARBON 13K 5% 1/6W
R13,21,23,43,69,71	1-247-859-00	RES,CARBON 15K 5% 1/6W
R227,228	1-247-862-00	RES,CARBON 20K 5% 1/6W
R133,233	1-247-863-00	RES,CARBON 22K 5% 1/6W
R153,183,252	1-247-866-00	RES,CARBON 30K 5% 1/6W
R12	1-247-872-00	RES,CARBON 51K 5% 1/6W
R167	1-247-876-00	RES,CARBON 75K 5% 1/6W
R24,82,160,164,235,238, 239	1-247-879-00	RES,CARBON 100K 5% 1/6W
R138,139,140,157,172, 505	1-247-903-00	RES,CARBON 1M 5% 1/6W
R531	1-249-415-11	RES,CARBON 680 5% 1/6W
R532	1-249-420-11	RES,CARBON 1.8K 5% 1/6W
L13,14	1-407-159-XX	INDUCTOR,MICRO,15 5%
L12	1-407-162-XX	INDUCTOR,MICRO,27 5%
L10	1-407-166-XX	INDUCTOR,MICRO,56 5%
L7	1-407-169-XX	INDUCTOR,MICRO,100 5%
L8,9	1-407-186-XX	INDUCTOR,MICRO,4.7 5%
L1,2,3,4,11	1-408-421-00	INDUCTOR,MICRO,100 5%
L5,6,15	1-421-370-00	COIL,CHOKE
X1	1-527-933-00	CRYSTAL,7.682MHz
FB1,2,3,4,5,6,7,8,9,10, 11,12,13,14	1-535-178-00	FERRITE BEAD
S1	1-553-440-00	SWITCH,TOGGLE
JP1,4,5	1-563-859-11	RECEPTACLE, CONNECTOR 2P

Ref.No. or Q'ty	Part No.	Description
(MD-14 BOARD,CARD RACK)		
JP1,2,3,4,5,6		
	1-566-385-11	PIN,CONNECTOR 2P
TH1	1-800-200-00	THERMISTOR,S-3K
TP1,2,3,4,5,6,7,8,9,10		
()	3-657-703-01	TERMINAL,TP
TPE1,2,3,4,5		
()	3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION, PC BOARD
1pc	() 3-674-615-00	LABEL(MD-14),PC BOARD
1pc	() 3-693-055-01	LABEL NS (MD-14),PC BOARD
4pcs	7-621-981-15	SCREW,PSW 2.6x6
2pcs	() 7-626-317-21	PIN,SPRING 2.5x8
D31,32,33,34,35,36		
	8-719-101-97	DIODE 1SS97-1
D1	8-719-111-07	DIODE RD11E-B
D4	8-719-143-07	DIODE RD4.3E-B
D11	8-719-168-07	DIODE RD6.8E-B
D2,5,6,12,14,15,17,18, 19,20,501		
	8-719-815-55	DIODE 1S1555
D7,8,9,10		
	8-719-815-59	DIODE 1S1555-S
D3,13,16	8-719-815-80	DIODE 1S1587
Q1,2,7,11,12,13,19		
	8-729-110-53	TRANSISTOR 2SA1005
Q3,4,22,24		
	8-729-117-33	TRANSISTOR 2SC1733
Q5,6	8-729-177-43	TRANSISTOR 2SD774
Q17,21	8-729-606-32	TRANSISTOR 2SC2603
Q14,16	8-729-697-92	TRANSISTOR 2SA979
IC5,12,25		
	8-743-931-10	IC BX3931A

Ref.No. or Q'ty	Part No.	Description
(MD-14 BOARD,CARD RACK)		
IC27	8-759-001-16	IC MC10116L,ECL
IC13	8-759-001-98	IC MC10198L
IC3	8-759-014-96	IC MC1496P
IC10	8-759-015-95	IC MC1595L
IC9	8-759-270-69	IC TA7069P
IC16	8-759-301-05	IC HD10105,ECL
IC26	8-759-301-17	IC HD10117,ECL
IC1	8-759-301-31	IC HD10131,ECL
IC30	8-759-900-00	IC SN74LS00N,TTL
IC33	8-759-900-02	IC SN74LS02N,TTL
IC21	8-759-900-04	IC SN74LS04N,TTL
IC31	8-759-900-10	IC SN74LS10N,TTL
IC36	8-759-901-23	IC SN74LS123N,TTL
IC28,29,34,35,37		
	8-759-902-21	IC SN74LS221N,TTL
IC14,23,32		
	8-759-906-07	IC TL607CP
IC2	8-759-906-85	IC AM685DL
IC19	8-759-951-07	IC SN75107AN
IC6,7	8-759-957-09	IC FT5709M
IC4,22	8-759-990-82	IC TL082CP
IC15,17,18,20,38		
	8-759-990-84	IC TL084CN
Q20	8-761-622-00	TRANSISTOR 2SC1636
Q8,9,10,18,23,25		
	8-765-300-00	TRANSISTOR 2SC2009
Q15	8-769-192-00	TRANSISTOR 2SK43-2

Ref.No. or Q'ty	Part No.	Description
<u>LG-02(A) BOARD (BVH-2000PS,2180PS/CARD RACK)</u>		
1pc	() A-6017-103-A	COMPLETE PCB, LG-02(A)
	() A-6017-122-A	COMPLETE PCB, LG-02(A)
		(For BVH-2000PS 10,12, 14 model)
(This assembly includes the following parts.)		
C36	1-102-114-00	CAP,CERAMIC 470PF 10% 50V
C4	1-107-164-00	CAP,MICA 51PF 5% 500V
C6,33,34	1-108-555-00	CAP,MYLAR 0.001 5% 50V
C38	1-108-587-00	CAP,MYLAR 0.022 5% 50V
C1,2,20,27	1-123-330-00	CAP,ELECT 22 25V
C5	1-123-380-00	CAP,ELECT 1 100V
C37	1-123-616-00	CAP,ELECT 4.7 25V
C3,7,8,9,10,11,12,13,14, 15,16,17,18,19,35	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
R12,15	1-214-118-00	RES,METAL 270 1% 1/4W
R42	1-215-456-00	RES,METAL 30K 1% 1/6W
RB1,2,3,4,5,6,7,8,9	1-231-410-00	RES BLOCK,10Kx8
R2,3,5,6,13,38	1-247-783-00	RES,CARBON 10 5% 1/6W
R39	1-247-819-00	RES,CARBON 330 5% 1/6W
R27,36,37	1-247-829-00	RES,CARBON 820 5% 1/6W
R19	1-247-831-00	RES,CARBON 1K 5% 1/6W
R16	1-247-838-00	RES,CARBON 2K 5% 1/6W
R17	1-247-842-00	RES,CARBON 3K 5% 1/6W
R9,10,11,18,20,21,22,23, 24,25,26,28,29,30,31, 32,33,34,35,40	1-247-855-00	RES,CARBON 10K 5% 1/6W
L1	1-421-370-00	COIL,CHOKE
S1	1-516-923-21	SWITCH,DIP,4-CKT
S2	1-516-925-21	SWITCH,DIP,8-CKT
S3	1-553-440-00	SWITCH,TOGGLE

Ref.No. or Q'ty	Part No.	Description
(LG-02(A) BOARD,CARD RACK)		
S4	1-553-441-21	SWITCH,TOGGLE
2pcs	1-563-859-11	RECEPTACLE,CONNECTOR 2P
JP1,2,3,4,5,6,7,8,9	1-566-385-11	PIN,CONNECTOR 2P
TP1,2,3,4,5,6,7,8,9,10, 11,12 ()	3-657-703-01	TERMINAL,TP
TPE1,2,3	() 3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION, PC BOARD
1pc	() 3-674-627-11	LABEL(LG-02A),PC BOARD
1pc	() 3-693-052-01	LABEL PS-NS (LG-02A),PC BOARD
4pcs	4-866-397-00	CUSHION,LED
1pc	7-621-981-15	SCREW,PSW 2.6x6
2pcs	() 7-626-317-21	PIN,SPRING 2.5x8
D1,2,3,4,5,6,7,8	8-719-911-06	DIODE 1SS106
D11	8-719-930-33	LED,GL3PR3,RED
D9	8-719-930-53	LED,GL3HY3,YEL
IC2G	8-759-040-46	IC MC14046BCP,CMOS
IC3I	8-759-645-17	IC M54517P
IC4F	8-759-756-27	IC,PROM,MB7051-L2A1
IC4E	8-759-761-39	IC,PROM,MB7051-L1A2
IC2H,3L,4I,5A,5E	8-759-900-00	IC SN74LS00N,TTL
IC2A,2B,2L,2M,3M,4L,4M, 5D,5L,5M	8-759-900-04	IC SN74LS04N,TTL
IC1A,2K,5C	8-759-900-08	IC SN74LS08N,TTL
IC3H	8-759-900-11	IC SN74LS11N,TTL
IC4H,5G,5I	8-759-900-32	IC SN74LS32N,TTL

Ref.No. or Q'ty	Part No.	Description
(LG-02(A) BOARD,CARD RACK)		
IC3B,3C,3D,3E,3F,3G,5B, 5F	8-759-900-74	IC SN74LS74AN,TTL
IC5H	8-759-900-86	IC SN74LS86N,TTL
IC1C	8-759-901-23	IC SN74LS123N,TTL
IC1K,1L	8-759-901-38	IC SN74LS138N,TTL
IC2C,2D	8-759-901-61	IC SN74LS161AN,TTL
IC2J,3J,4J,5J	8-759-901-74	IC SN74LS174N,TTL
IC1E,4B,4C,4D	8-759-901-91	IC SN74LS191N,TTL
IC1F,1G,1I	8-759-902-40	IC SN74LS240N,TTL
IC1J	8-759-902-44	IC SN74LS244N,TTL
IC3K,4G,4K,5K	8-759-902-73	IC SN74LS273N,TTL
IC2E,3A	8-759-903-93	IC SN74LS393N,TTL
IC2F	8-759-906-24	IC SN74LS624N,TTL

SY-79 BOARD (BVH-2000PS,2180PS/CARD RACK)

1pc (for 02/04/12/14 model)	() A-6017-090-A	COMPLETE PCB,SY-79
1pc (for 00/10 model)	() A-6017-096-A	COMPLETE PCB,SY-79
(These ass'ies include the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C59	1-102-115-00	CAP,CERAMIC 560PF 10% 50V
C62,63,64,65,66,67,68, 69	1-107-026-00	CAP,MICA 5.1PF +/-0.5PF 500V
C40	1-107-085-00	CAP,MICA 100PF 5% 50V

Ref.No. or Q'ty	Part No.	Description
(SY-79 BOARD,CARD RACK)		
C57,60	1-107-209-00	CAP,MICA 20PF 5% 500V
C47,58	1-108-555-00	CAP,MYLAR 0.001 5% 50V
C31	1-123-307-00	CAP,ELECT 100 10V
C16,21,25,28,29	1-123-330-00	CAP,ELECT 22 25V
C48,49,52,56	1-123-380-00	CAP,ELECT 1 100V
C42	1-124-255-00	CAP,ELECT 1 20% 50V
C1,2,4,6,7,8,10,12,22, 34,36,38,44,46,50,55, 61	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
RB1,2,3,5,6,7,8,9,28,29	1-231-410-00	RES BLOCK,10Kx8
RB26,27	1-231-533-00	RES BLOCK,10Kx4
CP1,2,3	1-235-106-00	CR PACK
R5,16	1-247-791-00	RES,CARBON 22 5% 1/6W
R4,23	1-247-814-00	RES,CARBON 200 5% 1/6W
R8,15,22	1-247-829-00	RES,CARBON 820 5% 1/6W
R9,10	1-247-831-00	RES,CARBON 1K 5% 1/6W
R3	1-247-838-00	RES,CARBON 2K 5% 1/6W
R1,2,6,7,12,13,14,17,18, 19,20,21,24,25	1-247-855-00	RES,CARBON 10K 5% 1/6W
L1	1-409-339-00	COIL,SN
S9	1-516-925-21	SWITCH,DIP,8-CKT
X1	1-527-827-00	CRYSTAL,4.9152MHZ
S3	1-552-539-00	SWITCH,PUSH
S1,2	1-553-252-00	SWITCH,ROTARY
S6	1-553-440-00	SWITCH,TOGGLE
S4,5	1-553-441-00	SWITCH,TOGGLE
S7,8,10,11	1-553-925-00	SWITCH,ROTARY
S12 (for 00 model)	1-554-329-00	SWITCH,TOGGLE
3pcs	1-565-413-11	RECEPTACLE,CONNECTOR 2P

Ref.No. or Q'ty	Part No.	Description
(SY-79 BOARD,CARD RACK)		
JP1,2,3,4,5,6	1-566-385-11	PIN,CONNECTOR 2P
TP1,2,3,4,5,6,7,8,9,10	() 3-673-805-01	TERMINAL,TP
TPE1,2,3	() 3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION, PC BOARD
1pc (for 02/04 model)	() 3-674-617-00	LABEL(SY-79),PC BOARD
1pc (for 00 model)	() 3-674-684-00	LABEL(SY-79),PC BOARD
2pcs	4-866-397-00	CUSHION,LED
4pcs	7-621-981-15	SCREW,PSW2.6x6
2pcs	() 7-626-317-21	PIN,SPRING 2.5x8
ND1	8-719-901-68	LED,7-SEGMENT, GL-6R202,RED
D1,3	8-719-911-06	DIODE 1SS106
Q1	8-729-110-53	TRANSISTOR 2SA1005
IC5A,6A	8-759-044-95	IC MC14495P,CMOS
IC5M,5N	8-759-045-84	IC MC14584BCP,CMOS
IC4M	8-759-240-53	IC TC4053BP,CMOS
IC6K,6L,6M,6N	8-759-645-16	IC M54516P
IC1H	8-759-772-27	IC,EPROM,2732-72U3-5
IC1I	8-759-772-33	IC,EPROM,2732-71A3-5
IC1G	8-759-772-28	IC,EPROM,2732-73U3-5
IC1E	8-759-772-29	IC,EPROM,2732-74U3-5
IC1D	8-759-772-30	IC,EPROM,2732-75U3-5
IC1A	8-759-772-32	IC,EPROM,2732-77U3-5
IC1K	8-759-778-55	IC,EPROM,2732-70U3-6
IC1C	8-759-778-56	IC,EPROM,2732-76U3-6
IC3P,4N	8-759-900-00	IC SN74LS00N,TTL
IC2L,3Q	8-759-900-04	IC SN74LS04N,TTL
IC3M	8-759-900-08	IC SN74LS08N,TTL
IC3L	8-759-900-14	IC SN74LS14N,TTL

Ref.No. or Q'ty	Part No.	Description
(SY-79 BOARD,CARD RACK)		
IC4D	8-759-900-20	IC SN74LS20N,TTL
IC30,5F,6F	8-759-900-32	IC SN74LS32N,TTL
IC2D,2E	8-759-901-28	IC MSM5128-12RS,CMOS
IC4E,4F,6E	8-759-901-38	IC SN74LS138N,TTL
IC5E	8-759-901-39	IC SN74LS139N,TTL
IC2A,2B,2C,4B,5I	8-759-902-40	IC SN74LS240N,TTL
IC1L,10,1P,5K,5L	8-759-902-44	IC SN74LS244N,TTL
IC20,2P	8-759-902-45	IC SN74LS245N,TTL
IC4A,5J,6I,6J	8-759-902-73	IC SN74LS273N,TTL
IC3N	8-759-903-65	IC SN74LS365AN,TTL
IC2K	8-759-903-93	IC SN74LS393N,TTL
IC1M	8-759-916-80	IC LH0080A,NMOS
IC2H	8-759-916-82	IC LH0082A,NMOS
IC2I	8-759-916-84	IC LH0084A,NMOS
IC40,4P	8-759-926-30	IC AM26LS30PC
IC4Q	8-759-926-32	IC AM26LS32PC

Ref.No. or Q'ty	Part No.	Description
<u>SY-80 BOARD (BVH-2000PS,2180PS/CARD RACK)</u>		
1pc (This assembly includes the following parts.)	() A-6017-091-A	COMPLETE PCB,SY-80
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C47	1-102-115-00	CAP,CERAMIC 560PF 10% 50V
C27	1-107-085-00	CAP,MICA 100PF 5% 50V
C48,49,51	1-107-209-00	CAP,MICA 20PF 5% 500V
C25,43	1-108-555-00	CAP,MYLAR 0.001 5% 50V
C45,46	1-108-561-00	CAP,MYLAR 0.0018 5% 50V
C1	1-123-307-00	CAP,ELECT 100 10V
C2,28,30,36,39	1-123-330-00	CAP,ELECT 22 25V
C22,29	1-123-380-00	CAP,ELECT 1 100V
C44	1-161-043-00	CAP,CERAMIC 0.0022 10% 50V
C3,5,7,11,14,16,19,23, 24,50	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
RB2	1-231-407-00	RES BLOCK,2.2Kx8
RB1,3,4,5,6,7,8,9	1-231-410-00	RES BLOCK,10Kx8
R14,18	1-247-791-00	RES,CARBON 22 5% 1/6W
R13,22,23	1-247-814-00	RES,CARBON 200 5% 1/6W
R17,20,21	1-247-829-00	RES,CARBON 820 5% 1/6W
R10,11	1-247-831-00	RES,CARBON 1K 5% 1/6W
R4,5,12	1-247-838-00	RES,CARBON 2K 5% 1/6W
R1,2,3,6,7,8,15,16,19	1-247-855-00	RES,CARBON 10K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(SY-80 BOARD,CARD RACK)		
L1	1-409-339-00	COIL,SN
S8,9	1-516-925-21	SWITCH,DIP,8-CKT
X1	1-527-827-00	CRYSTAL,4.9152MHz
S3,4	1-552-539-00	SWITCH,PUSH
S1,2	1-553-252-00	SWITCH,ROTARY
S6	1-553-440-00	SWITCH,TOGGLE
S5	1-553-441-00	SWITCH,TOGGLE
TP1,2,3,4,5,6,7,8	() 3-673-805-01	TERMINAL,TP
TPE1,2,3	() 3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION, PC BOARD
1pc	() 3-674-624-00	LABEL(SY-80),PC BOARD
2pcs	3-621-124-01	SPASER
4pcs	7-621-981-15	SCREW,PSW 2.6x6
2pcs	() 7-626-317-21	PIN,SPRING 2.5x8
D3,4,5,6,7	8-719-815-55	DIODE 1S1555
ND1	8-719-901-68	LED,7-SEGMENT, GL-6R202,RED
D1,2	8-719-911-06	DIODE 1SS106
Q1	8-729-110-53	TRANSISTOR 2SA1005
IC5A,5B	8-759-044-95	IC MC14495P,CMOS
IC1I	8-759-240-71	IC TC4071BP,CMOS
IC1D	8-759-772-36	IC,EPROM,2732-81U3-6
IC1C	8-759-772-37	IC,EPROM,2732-82U3-5
IC1F	8-759-776-20	IC,EPROM,2732-80U3-6
IC1G,3G,4L	8-759-900-00	IC SN74LS00N,TTL
IC2G,4H,4I,5E,5K,5L,5M	8-759-900-04	IC SN74LS04N,TTL

Ref.No. or Q'ty	Part No.	Description
(SY-80 BOARD,CARD RACK)		
IC1H,3L	8-759-900-08	IC SN74LS08N,TTL
IC3M,4M	8-759-900-14	IC SN74LS14N,TTL
IC3E	8-759-900-20	IC SN74LS20N,TTL
IC2F,4J	8-759-900-32	IC SN74LS32N,TTL
IC3H,4E	8-759-900-74	IC SN74LS74AN,TTL
IC1B,1J	8-759-901-28	IC MSM5128-12RS,CMOS
IC2D,2E,3F,4F	8-759-901-38	IC SN74LS138N,TTL
IC5F	8-759-901-39	IC SN74LS139N,TTL
IC4C	8-759-901-51	IC SN74LS151N,TTL
IC1K,1L,1M	8-759-901-57	IC SN74LS157N,TTL
IC1A,2B,3B,4B	8-759-902-40	IC SN74LS240N,TTL
IC2H,2J,2N	8-759-902-44	IC SN74LS244N,TTL
IC2K,2L,2M	8-759-902-45	IC SN74LS245N,TTL
IC5G,5H,5I,5J	8-759-902-73	IC SN74LS273N,TTL
IC4D	8-759-902-80	IC SN74LS280N,TTL
IC3J	8-759-903-65	IC SN74LS365AN,TTL
IC2I	8-759-916-80	IC LH0080A,NMOS
IC3K	8-759-916-82	IC LH0082A,NMOS

Ref.No. or Q'ty	Part No.	Description
SV-43 BOARD (BVH-2000PS,2180PS/CARD RACK)		
1pc (for BVH-2000PS)	() A-6015-066-A	COMPLETE PCB,SV-43
1pc (for BVH-2180PS)	() A-6015-088-A	COMPLETE PCB,SV-43
(These ass'ies includes the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C32,34,37,39,41	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C101	1-107-202-00	CAP,MICA 10PF 5% 500V
C15,16,17,18,19,20,21, 26	1-123-822-00	CAP,ELECT 47 10V
C27	1-124-141-00	CAP,ELECT 330 10V
C30,31	1-130-491-00	CAP,MYLAR 0.047 5% 50V
C42	1-131-381-00	CAP,TANT 47 10% 10V
C40	1-161-051-00	CAP,CERAMIC 0.01 10% 50V
C1,2,3,4,5,6,7,8,9,10, 11,12,13,14,22,23,24, 25,28,29,33,35,38	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
RB1	1-231-385-00	RES BLOCK,4.7Kx8
RB2,3,4,5	1-235-109-00	RES BLOCK,22Kx8
R2,3,6,7,10,11,32,46,47	1-247-783-00	RES,CARBON 10 5% 1/6W
R41,44	1-247-790-00	RES,CARBON 20 5% 1/6W
R34,35	1-247-807-00	RES,CARBON 100 5% 1/6W
R105	1-247-811-00	RES,CARBON 150 5% 1/6W
R42	1-247-814-00	RES,CARBON 200 5% 1/6W
R26	1-247-823-00	RES,CARBON 470 5% 1/6W
R39,40	1-247-829-00	RES,CARBON 820 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(SV-43 BOARD,CARD RACK)		
R43	1-247-831-00	RES,CARBON 1K 5% 1/6W
R31	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R25,27,28,29,33	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R20,21,22,23,24,38	1-247-855-00	RES,CARBON 10K 5% 1/6W
(for BVH-2180PS)		
R101,102	1-247-855-00	RES,CARBON 10K 5% 1/6W
R13,14,15,18,19,30,36, 37	1-247-863-00	RES,CARBON 22K 5% 1/6W
(for BVH-2180)		
R103,104	1-247-863-00	RES,CARBON 22K 5% 1/6W
R16,17	1-247-879-00	RES,CARBON 100K 5% 1/6W
L1	1-408-417-00	INDUCTOR,MICRO,47 5%
L2	1-409-339-00	COIL,SN
S1	1-516-923-21	SWITCH,DIP,4-CKT
X1	1-527-936-00	CRYSTAL,10MHZ
S2	1-553-441-00	SWITCH,TOGGLE
CN1M	() 1-560-760-00	RECEP,40P,MALE
TP1,2,3,4,5,6,7,8,9,10, 11,12,13,14	() 3-673-805-01	TERMINAL,TP
TPE1,2,3,4	() 3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION, PC BOARD
1pc	() 3-674-619-00	LABEL(SV-43),PC BOARD
2pcs	4-866-397-01	CUSHION,LED
4pcs	7-621-981-15	SCREW,PSW 2.6x6
2pcs	() 7-626-317-21	PIN,SPRING 2.5x8
D1,3,4,5	8-719-815-55	DIODE 1S1555
ND1	8-719-901-68	LED,7-SEGMENT, GL-6R202,RED
D2	8-719-911-06	DIODE 1SS106
Q4	8-729-110-53	TRANSISTOR 2SA1005
Q1,2	8-729-117-54	TRANSISTOR 2SA1175

Ref.No. or Q'ty	Part No.	Description
(SV-43 BOARD,CARD RACK)		
Q3	8-729-606-32	TRANSISTOR 2SC2603
IC5C	8-759-044-95	IC MC14495P,CMOS
IC2N	8-759-045-38	IC MC14538BCP,CMOS
IC1R	8-759-240-49	IC TC4049BP,CMOS
IC1P,1Q,5I,6O	8-759-241-74	IC TC40174BP,CMOS
IC1N	8-759-245-20	IC TC4520BP,CMOS
IC2P,2Q,4I,6N	8-759-345-03	IC HD14503BP,CMOS
(for BVH-2180PS)		
IC6D	8-759-345-03	IC HD14503BP,CMOS
(for BVH-2000PS)		
IC1F	8-759-758-95	IC,EPROM,MBM2732-S2U3
IC1I	8-759-758-97	IC,EPROM,MBM2732-S4U3
IC6K	8-759-761-26	IC,EPROM,MBM2732-S8U3-2
IC1E	8-759-769-76	IC,EPROM,MBM2732-S1U3-9
IC1H	8-759-764-06	IC,EPROM,MBM2732-S3U3-6
IC6I	8-759-765-47	IC,EPROM,MBM2732-S7U3-8
(for BVH-2180PS)		
IC1F	8-759-764-32	IC,EPROM,MBM2732-S2Q1
IC1I	8-759-764-34	IC,EPROM,MBM2732-S4Q1
IC6I	8-759-765-48	IC,EPROM,MBM2732-S7Q1-2
IC6K	8-759-764-36	IC,EPROM,MBM2732-S8Q1
IC1E	8-759-769-77	IC,EPROM,MBM2732-S1Q1-3
IC1H	8-759-764-33	IC,EPROM,MBM2732-S3Q1
IC5H,5O	8-759-900-00	IC SN74LS00N,TTL
IC4G,5P	8-759-900-02	IC SN74LS02N,TTL
IC4D	8-759-900-03	IC SN74LS03N,TTL
IC2R,3O,4F,6C	8-759-900-04	IC SN74LS04N,TTL
IC4H,4N	8-759-900-08	IC SN74LS08N,TTL
IC3H,5F	8-759-900-10	IC SN74LS10N,TTL
IC4E	8-759-900-30	IC SN74LS30N,TTL
IC3G,3I,4O,5E,5N	8-759-900-32	IC SN74LS32N,TTL
IC4M,5D,5G	8-759-900-74	IC SN74LS74AN,TTL
IC6F	8-759-901-07	IC SN74LS107AN,TTL
IC1M,6M	8-759-901-28	IC MSM5128-12RS,CMOS
IC1O,3E	8-759-901-38	IC SN74LS138N,TTL

Ref.No. or Q'ty	Part No.	Description
(SV-43 BOARD,CARD RACK)		
IC20,3D,3F,3N,5M	8-759-901-39	IC SN74LS139N,TTL
IC3J,3K,3R,4C,4J,4R,5Q	8-759-902-44	IC SN74LS244N,TTL
IC1D,4K,6P	8-759-902-45	IC SN74LS245N,TTL
IC3P,3Q,4P,4Q	8-759-906-70	IC SN74LS670N,TTL
IC6H	8-759-910-04	IC SN74S04N,TTL
IC2B,3L	8-759-916-80	IC LH0080A,NMOS

Ref.No. or Q'ty	Part No.	Description
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RL-12 BOARD (BVH-2000PS,2180PS/CARD RACK)

1pc (for BVH-2000PS)	() A-6015-067-C	COMPLETE PCB,RL-12
1pc (for BVH-2180PS)	() A-6015-089-A	COMPLETE PCB,RL-12
(These ass'ies includes the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C113,114	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C120,121	1-102-112-00	CAP,CERAMIC 330PF 10% 50V
C31,32,33,34,35,42	1-102-114-00	CAP,CERAMIC 470PF 10% 50V
C116	1-107-202-00	CAP,MICA 10PF 5% 500V
C111	1-108-566-00	CAP,MYLAR 0.003 5% 50V
C21	1-123-611-00	CAP,ELECT 1 50V
C2,3,16,19,26,28,48,86,88	1-123-821-00	CAP,ELECT 47 16V
C102	1-124-141-00	CAP,ELECT 330 10V
C11,47,51,53,60,61,62,80,81,90,93,94,96,101	1-124-236-00	CAP,ELECT 47 16V
C46,68	1-124-240-00	CAP,ELECT 10 25V
C38,39	1-124-656-00	CAP,ELECT NONPOLAR 2.2 50V
C115	1-130-483-00	CAP,MYLAR 0.01 5% 50V
C112	1-130-484-00	CAP,MYLAR 0.012 5% 50V
C106,110	1-130-485-00	CAP,MYLAR 0.015 5% 50V
(for BVH-2000PS)		
C108	1-130-485-00	CAP,MYLAR 0.015 5% 50V
(for BVH-2180PS)		
C108	1-130-486-00	CAP,MYLAR 0.018 5% 50V
C105	1-130-489-00	CAP,MYLAR 0.033 5% 50V
(for BVH-2000PS)		
C107	1-130-489-00	CAP,MYLAR 0.033 5% 50V
(for BVH-2180PS)		
C107	1-130-490-00	CAP,MYLAR 0.039 5% 50V
C40	1-130-495-00	CAP,MYLAR 0.1 5% 50V
(for BVH-2000PS)		
C41	1-130-495-00	CAP,MYLAR 0.1 5% 50V
C56,57,58,59,67,69	1-131-369-00	CAP,TANT 4.7 10% 16V

Ref.No. or Q'ty	Part No.	Description	Ref.No. or Q'ty	Part No.	Description
(RL-12 BOARD,CARD RACK)			(RL-12 BOARD,CARD RACK)		
C17,20,22,23,25,30,44	1-161-047-00	CAP,CERAMIC 0.0047 10% 50V	R77,87,153	1-215-447-00	RES,METAL 12K 1% 1/6W
C5,6,7,8,9,10	1-161-049-00	CAP,CERAMIC 0.0068 10% 50V	(for BVH-2000PS)		
C14	1-161-051-00	CAP,CERAMIC 0.01 10% 50V	R187	1-215-448-00	RES,METAL 13K 1% 1/6W
(for BVH-2180PS)			R80,94,98,100,103,104, 115,116,117	1-215-449-00	RES,METAL 15K 1% 1/6W
C41	1-161-897-00	CAP,CERAMIC 0.33 50V	R89	1-215-451-00	RES,METAL 18K 1% 1/6W
C1,4,15,18,27,29,36,37, 45,49,50,52,54,55,70, 82,83,84,85,87,89,91, 92,95,97,100,103,104, 131,132	1-162-596-00	CAP,CERAMIC 0.022 25V	R40,42,44,45,82,90,93, 95,96,144,146,186,188, 189	1-215-452-00	RES,METAL 20K 1% 1/6W
(for BVH-2000PS)			R149,151	1-215-454-00	RES,METAL 24K 1% 1/6W
R212	1-215-373-31	RES,METAL 10 1% 1/6W	R177	1-215-468-00	RES,,METAL 91K 1% 1/6W
R78	1-215-406-00	RES,METAL 240 1% 1/6W	R58,123,124,135,141, 178,179,180,181,182, 1-215-469-00		RES,METAL 100K 1% 1/6W
R32,175	1-215-418-00	RES,METAL 750 1% 1/6W	(for BVH-2000PS)		
R30,31,64,106	1-215-425-00	RES,METAL 1.5K 1% 1/6W	R183	1-215-469-00	RES,METAL 100K 1% 1/6W
R108	1-215-428-00	RES,METAL 2K 1% 1/6W	RV10	1-224-936-00	RES,VAR,CERMET 500
R36,37,110	1-215-432-00	RES,METAL 3K 1% 1/6W	RV7	1-224-937-00	RES,VAR,CERMET 1K
R184	1-215-433-00	RES,METAL 3.3K 1% 1/6W	RV11	1-224-938-00	RES,VAR,CERMET 2K
(for BVH-2180PS)			RV1,2,3,4,5,6	1-224-939-00	RES,VAR,CERMET 5K
R212	1-215-435-00	RES,METAL 3.9K 1% 1/6W	RV9	1-224-940-00	RES,VAR,CERMET 10K
R185	1-215-440-00	RES,METAL 6.2K 1% 1/6W	RV12,13,15	1-224-941-00	RES,VAR,CERMET 20K
(for BVH-2180PS)					
R213	1-215-440-00	RES,METAL 6.2K 1% 1/6W	RV8,20	1-224-942-00	RES,VAR,CERMET 50K
R111,113	1-215-442-00	RES,METAL 7.5K 1% 1/6W	RV14	1-230-741-21	RES,VAR,CARBON 10K
(for BVH-2180PS)			RB2	1-231-399-00	RES,BLOCK 330x8
R187	1-215-443-00	RES,METAL 8.2K 1% 1/6W	R83,107,109	1-247-783-00	RES,CARBON 10 5% 1/6W
R41,43,62,81,85,91,92, 97,99,102,143,145,148, 150,193	1-215-445-00	RES,METAL 10K 1% 1/6W	(for BVH-2000PS)		
R176	1-215-446-00	RES,METAL 11K 1% 1/6W	R216	1-247-783-00	RES,CARBON 10 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(RL-12 BOARD,CARD RACK)		
R79,210,211	1-247-815-00	RES,CARBON 220 5% 1/6W
R15,17,21,25,28,34,173	1-247-831-00	RES,CARBON 1K 5% 1/6W
R35	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R1,2,3,4,5,6,76	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R7,9,11,13,22,23,88	1-247-842-00	RES,CARBON 3K 5% 1/6W
R49,56	1-247-843-00	RES,CARBON 3.3K 5% 1/6W
R67,84	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R169	1-247-846-00	RES,CARBON 4.3K 5% 1/6W
R8,10,12,14,26,27,197	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R196	1-247-860-00	RES,CARBON 16K 5% 1/6W
(for BVH-2180PS)		
R66	1-247-861-00	RES,CARBON 18K 5% 1/6W
R54,55,195	1-247-862-00	RES,CARBON 20K 5% 1/6W
R154,161,172	1-247-863-00	RES,CARBON 22K 5% 1/6W
(for BVH-2180PS)		
R73	1-247-873-00	RES,CARBON 56K 5% 1/6W
R194,200	1-247-877-00	RES,CARBON 82K 5% 1/6W
R46,50,51,168	1-247-879-00	RES,CARBON 100K 5% 1/6W
R57	1-247-883-00	RES,CARBON 150K 5% 1/6W
R16,18,19,20,24,29	1-247-885-00	RES,CARBON 180K 5% 1/6W
R52,53	1-247-887-00	RES,CARBON 220K 5% 1/6W
(for BVH-2180PS)		
R183	1-247-888-00	RES,CARBON 240K 5% 1/6W
R174	1-247-891-00	RES,CARBON 330K 5% 1/6W
R48,167	1-247-893-00	RES,CARBON 390K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(RL-12 BOARD,CARD RACK)		
R72	1-247-895-00	RES,CARBON 470K 5% 1/6W
R47,112,147,152	1-247-903-00	RES,CARBON 1M 5% 1/6W
R38,39,74,75,86,114,155, 156,157,158,159,160, 164,165,170,190,191, 192,215,217	1-249-429-11	RES,CARBON 10K 5% 1/6W
(for BVH-2000PS)		
R66,73	1-249-429-11	RES,CARBON 10K 5% 1/6W
L1,2,3	1-408-417-00	INDUCTOR,MICRO 47 5%
L4,5,6	1-421-370-00	COIL,CHOKE
S1	1-553-441-00	SWITCH,TOGGLE
TP1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20,21	() 3-673-805-01	TERMINAL,TP
TPE1,2,3,4	() 3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION,PC BOARD
(for BVH-2000PS)		
1pc	() 3-674-620-01	LABEL(RL-12),PC BOARD
(for BVH-2180PS)		
1pc	() 3-690-531-01	LABEL(RL-12),PC BOARD
1pc	7-621-737-08	SCREW,2.6x3
4pcs	7-621-981-15	SCREW,PSW 2.6x6
2pcs	7-626-317-21	PIN,SPRING 2.5x8
D40	8-719-156-07	DIODE RD5.6E-B
D301,302	8-719-175-07	DIODE RD7.5E
D4,5,6,7	8-719-400-25	LED,LN25RP,RED
D0,1,2,3	8-719-400-35	LED,LN35BP,GREEN
D8,9,10,11,12,13,14,15, 16,17,18,19,20,21,22, 23,24,25,26,27,28,29, 43,44,45,46,47,48	8-719-815-55	DIODE 1S1555
Q1	8-729-374-02	TRANSISTOR 2SB740
IC4	8-759-100-34	IC UPC648D
IC1,2,3	8-759-103-93	IC UPC393C

Ref.No. or Q'ty	Part No.	Description
(RL-12 BOARD, CARD RACK)		
IC18, 25, 26	8-759-135-80	IC UPC358C
IC14, 27	8-759-145-58	IC UPC4558C
IC2I, 2J, 2L	8-759-182-53	IC UPD8253C-5, NMOS
IC6, 21, 22	8-759-208-06	IC TC4051BPHB
IC23	8-759-208-08	IC TC4052BPHB
IC29	8-759-208-10	IC TC4053BPHB
IC2C, 2D, 2F, 2Q, 2R	8-759-241-74	IC TC40174BP, CMOS
IC2E, 2M, 2N, 2O, 2P	8-759-345-03	IC HD14503BP, CMOS
IC1H	8-759-766-61	IC, PROM, MB7052-R2U3
IC1E, 1P, 3F	8-759-900-00	IC SN74LS00N, TTL
IC1N, 1O, 1T, 2G, 2T	8-759-900-04	IC SN74LS04N, TTL
IC1K	8-759-900-08	IC SN74LS08N, TTL
IC3O	8-759-900-32	IC SN74LS32N, TTL
IC1J, 1M	8-759-900-74	IC SN74LS74AN, TTL
IC1D, 2S	8-759-900-86	IC SN74LS86N, TTL
IC1Q, 3P	8-759-901-07	IC SN74LS107AN, TTL
IC3M	8-759-901-38	IC SN74LS138N, TTL
IC3N	8-759-901-39	IC SN74LS139N, TTL
IC1I, 1S	8-759-901-74	IC SN74LS174N, TTL
IC1F, 1G	8-759-901-91	IC SN74LS191N, TTL
IC3G	8-759-901-97	IC SN74LS197N, TTL
IC2A	8-759-903-74	IC SN74LS374N, TTL
IC1L, 1R	8-759-903-93	IC SN74LS393N, TTL
IC17	8-759-905-13	IC BA9101
IC11, 12	8-759-906-01	IC TL601CP
IC1B, 1C	8-759-910-43	IC CX23028
IC13	8-759-910-83	IC TL072ACP
IC31	8-759-990-04	IC TL074CN
IC5, 7, 8, 9, 15, 16, 19, 28	8-759-990-82	IC TL082CP

Ref.No. or Q'ty	Part No.	Description

RS-20 BOARD (BVH-2000PS, 2180PS/CARD RACK)		

BVH-2000PS #33401-34399		
BVH-2180PS #10001-10599		
(Board No. 1-615-381-11)		
IC4F	8-759-901-91	IC SN74LS191N
IC4J	8-759-901-91	IC SN74LS191N
IC4I	8-759-763-27	IC MB7052-R2U2
CN4G	1-566-088-11	PLUG, DIL 16P
CN4H	1-566-088-11	PLUG, DIL 16P

CD-17 BOARD (BVH-2000PS, 2180PS/CARD RACK)		

Board No; 1-606-075-11, 12, 13		
1pc	() A-6015-072-B	COMPLETE PCB, CD-17
	() A-6015-096-A	COMPLETE PCB, CD-17
		(For BVH-2000PS 10, 12, 14 model)
(This assembly includes the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY, SHIELD
C211	1-102-106-00	CAP, CERAMIC 100PF 10% 50V
C210	1-102-113-00	CAP, CERAMIC 390PF 10% 50V
C205, 206	1-102-125-00	CAP, CERAMIC 0.0047 10% 50V
C80	1-107-074-00	CAP, MICA 36PF 5% 50V
C20, 22, 68, 114	1-107-085-00	CAP, MICA 100PF 5% 50V
C8, 9, 10, 11, 59, 75, 78, 136, 138, 162	1-108-555-00	CAP, MYLAR 0.001 5% 50V
C74, 77, 115	1-108-563-00	CAP, MYLAR 0.0022 5% 50V

Ref. No. or Q'ty	Part No.	Description
(CD-17 BOARD, CARD RACK)		
(Board No. 1-606-075-11, 12, 13)		
C203	1-108-564-00	CAP, MYLAR 0.0024 5% 50V
C40, 42	1-108-565-00	CAP, MYLAR 0.0027 5% 50V
C39, 41	1-108-573-00	CAP, MYLAR 0.0056 5% 50V
C53, 118, 119, 137, 161, 201, 204	1-108-579-00	CAP, MYLAR 0.01 5% 50V
C131	1-108-581-00	CAP, MYLAR 0.012 5% 50V
C60	1-108-583-00	CAP, MYLAR 0.015 5% 50V
C52, 166	1-108-587-00	CAP, MYLAR 0.022 5% 50V
C5, 35, 36, 37, 38, 152, 153	1-108-595-00	CAP, MYLAR 0.047 5% 50V
C73, 76	1-108-603-00	CAP, MYLAR 0.1 5% 50V
C67	1-109-555-00	CAP, MICA 560PF 5% 100V
C19, 81	1-109-561-00	CAP, MICA 0.001 5% 100V
C123, 124, 127	1-123-818-00	CAP, ELECT 22 25V
C4, 13, 23, 26, 30, 31, 43, 44, 61, 62, 63, 72, 79	1-123-821-00	CAP, ELECT 47 16V
C32, 132, 141, 144, 147, 149, 150, 157	1-123-822-00	CAP, ELECT 47 10V
C159	1-124-141-00	CAP, ELECT 330 10V
C21	1-130-079-00	CAP, POLY 8600PF 1% 50V
C6, 7	1-131-345-00	CAP, TANT 0.47 10% 35V
C70	1-131-349-00	CAP, TANT 2.2 35V
C121, 165	1-131-371-00	CAP, TANT 10 10% 16V
C126	1-131-373-00	CAP, TANT 22 10% 16V
C120	1-131-374-00	CAP, TANT 33 10% 16V
CV1	1-141-260-00	CAP, TRIMMER 50PF
C122	1-161-039-00	CAP, CERAMIC 0.001 10% 50V
C3, 18, 24, 25, 27, 28, 33, 50, 51, 64, 65, 66, 69, 112, 113, 116, 117, 128, 130, 133, 135, 139, 140, 142, 143, 145, 146, 148, 151, 154, 155, 156, 158, 160	1-161-055-00	CAP, CERAMIC 0.022 10% 50V

Ref. No. or Q'ty	Part No.	Description
(CD-17 BOARD, CARD RACK)		
(Board No. 1-606-075-11, 12, 13)		
R78	1-214-134-00	RES, METAL 1.2K 1% 1/4W
R82	1-214-138-00	RES, METAL 1.8K 1% 1/4W
R87	1-214-145-00	RES, METAL 3.6K 1% 1/4W
R29	1-214-146-00	RES, METAL 3.9K 1% 1/4W
R89	1-214-149-00	RES, METAL 5.1K 1% 1/4W
R13	1-214-151-00	RES, METAL 6.2K 1% 1/4W
R47, 49, 107, 108	1-214-155-00	RES, METAL 9.1K 1% 1/4W
R28, 46, 48, 88, 105, 106, 117, 118	1-214-156-00	RES, METAL 10K 1% 1/4W
R7, 27, 38, 42, 122, 123	1-214-160-00	RES, METAL 15K 1% 1/4W
R10, 11	1-214-163-00	RES, METAL 20K 1% 1/4W
R43, 50	1-214-167-00	RES, METAL 30K 1% 1/4W
R33, 90	1-214-178-00	RES, METAL 82K 1% 1/4W
R198	1-214-180-00	RES, METAL 100K 1% 1/4W
RV14, 15, 16, 17	1-224-938-00	RES, VAR, METAL 2K
RV2, 3, 6, 7, 8, 9, 10, 11, 12	1-224-940-00	RES, VAR, METAL 10K
RV13	1-224-941-00	RES, VAR, METAL 20K
RV5	1-224-942-00	RES, VAR, METAL 50K
RV4	1-226-698-00	RES, VAR, CERMET 10K
RV1	1-228-763-00	RES, VAR, CERMET 5K
RB1	1-235-109-00	RES BLOCK, 22Kx8
R32, 159, 194, 206, 209	1-247-783-00	RES, CARBON 10 5% 1/6W
R68, 86, 91, 174	1-247-799-00	RES, CARBON 47 5% 1/6W
R128	1-247-804-00	RES, CARBON 75 5% 1/6W
R61, 310	1-247-807-00	RES, CARBON 100 5% 1/6W
R216	1-247-823-00	RES, CARBON 470 5% 1/6W
R171	1-247-824-00	RES, CARBON 510 5% 1/6W
R36, 37, 39, 41, 95, 99, 101, 103, 149, 157, 160, 301, 302, 303	1-247-831-00	RES, CARBON 1K 5% 1/6W

Ref. No. or Q'ty	Part No.	Description	Ref. No. or Q'ty	Part No.	Description
(CD-17 BOARD, CARD RACK) (Board No. 1-606-075-11, 12, 13)			(CD-17 BOARD, CARD RACK) (Board No. 1-606-075-11, 12, 13)		
R51, 54, 100, 102	1-247-835-00	RES, CARBON 1.5K 5% 1/6W	R136	1-247-869-00	RES, CARBON 39K 5% 1/6W
R67	1-247-837-00	RES, CARBON 1.8K 5% 1/6W	R15, 161	1-247-870-00	RES, CARBON 43K 5% 1/6W
R66, 119, 131, 133, 186, 196, 197	1-247-839-00	RES, CARBON 2.2K 5% 1/6W	R158	1-247-873-00	RES, CARBON 56K 5% 1/6W
R8	1-247-842-00	RES, CARBON 3K 5% 1/6W	R129	1-247-876-00	RES, CARBON 75K 5% 1/6W
R22, 24, 80	1-247-843-00	RES, CARBON 3.3K 5% 1/6W	R140	1-247-878-00	RES, CARBON 91K 5% 1/6W
R6, 75, 79, 132, 187, 211	1-247-847-00	RES, CARBON 4.7K 5% 1/6W	R14, 35, 40, 98, 104, 151, 173	1-247-879-00	RES, CARBON 100K 5% 1/6W
R142, 143	1-247-848-00	RES, CARBON 5.1K 5% 1/6W	R163, 214	1-247-886-00	RES, CARBON 200K 5% 1/6W
R124, 156	1-247-850-00	RES, CARBON 6.2K 5% 1/6W	R188, 189, 190, 191	1-247-895-00	RES, CARBON 470K 5% 1/6W
R141	1-247-851-00	RES, CARBON 6.8K 5% 1/6W	R77	1-247-901-00	RES, CARBON 820K 5% 1/6W
R1, 2, 3, 5, 16, 17, 18, 19, 25, 30, 31, 34, 44, 45, 52, 53, 55, 56, 57, 58, 59, 60, 63, 71, 83, 84, 85, 92, 93, 94, 96, 97, 109, 110, 111, 112, 113, 114, 115, 116, 120, 130, 138, 139, 147, 148, 152, 154, 157, 162, 164, 165, 166, 167, 169, 175, 215, 304, 305	1-247-855-00	RES, CARBON 10K 5% 1/6W	R202, 203, 204, 207, 212, 213	1-247-903-00	RES, CARBON 1M 5% 1/6W
R121	1-247-857-00	RES, CARBON 12K 5% 1/6W	L3	1-408-421-00	INDUCTOR, MICRO, 100 5%
R134, 135	1-247-858-00	RES, CARBON 13K 5% 1/6W	L1, 2, 4	1-409-339-00	COIL, SN
R192, 193	1-247-861-00	RES, CARBON 18K 5% 1/6W	S3	1-516-925-21	SWITCH, DIP, 8-CKT
R65, 178	1-247-862-00	RES, CARBON 20K 5% 1/6W	S7	1-552-539-00	SWITCH, PUSH
R20, 21, 69, 70, 81, 170, 176, 180, 181, 182, 185, 200, 201	1-247-863-00	RES, CARBON 22K 5% 1/6W	S1, 2	1-553-440-00	SWITCH, TOGGLE
R125	1-247-864-00	RES, CARBON 24K 5% 1/6W	S1 (NS)	1-554-441-00	SWITCH, TOGGLE
R172	1-247-865-00	RES, CARBON 27K 5% 1/6W	S4, 5, 6	1-554-027-00	SWITCH, ROTARY
R4, 9, 64, 168, 179	1-247-866-00	RES, CARBON 30K 5% 1/6W	S8	1-554-080-00	SWITCH, ROTARY
			TP1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 30, 31	() 3-673-805-01	TERMINAL, TP
			TPE1, 2, 3, 4, 5, 6	() 3-673-805-11	TERMINAL, TP
			1pc	() 3-673-865-00	LEVER, WITH PIN
			1pc	() 3-673-867-00	PLATE, INDICATION, PC BOARD
			1pc	() 3-674-628-00	LABEL (CD-17), PC BOARD
			1pc	() 3-693-053-01	LABEL PS-NS (CD-17), PC BOARD
			6pcs	4-866-397-00	CUSHION, LED
			4pcs	7-621-981-15	SCREW, PSW 2.6x6
			2pcs	() 7-626-317-21	PIN, SPRING 2.5x8

Ref. No. or Q'ty	Part No.	Description
(CD-17 BOARD, CARD RACK) (Board No. 1-606-075-11, 12, 13)		
D1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47	8-719-815-55	DIODE 1S1555
Q10, 18, 20	8-729-117-54	TRANSISTOR 2SA1175
Q9, 19	8-729-364-12	TRANSISTOR 2SC641K
Q7, 8, 15	8-729-672-43	TRANSISTOR 2SC2724
IC31, 32	8-751-300-00	IC CX130
IC27, 4L	8-759-045-38	IC MC14538BCP, CMOS
IC26, 29	8-759-131-11	IC UPC311C
IC1, 2, 4, 25, 28, 35, 37	8-759-145-58	IC UPC4558C
IC3F, 5F, 5G, 5I, 5K	8-759-182-53	IC UPD8253C-5, NMOS
IC1C, 4K	8-759-240-11	IC TC4011BP, CMOS
IC1D, 2D, 4M	8-759-240-13	IC TC4013BP, CMOS
IC24	8-759-240-51	IC TC4051BP, CMOS
IC4E	8-759-240-71	IC TC4071BP, CMOS
IC40	8-759-240-81	IC TC4081BP, CMOS
IC3E, 4H, 5Q	8-759-241-74	IC TC40174BP, CMOS
IC4D, 5M	8-759-245-20	IC TC4520BP, CMOS
IC4I, 4J, 5A, 5B, 5C, 5D, 5E	8-759-345-03	IC HD14503BP, CMOS
IC8	8-759-708-05	IC NJM78L05A
IC11, 12, 13, 22, 23, 33, 34	8-759-745-60	IC NJM4560D

Ref. No. or Q'ty	Part No.	Description
(CD-17 BOARD, CARD RACK) (Board No. 1-606-075-11, 12, 13)		
IC18	8-759-900-00	IC SN74LS00N, TTL
IC3C, 4Q, 4S, 5R	8-759-900-04	IC SN74LS04N, TTL
IC3D	8-759-900-14	IC SN74LS14N, TTL
IC4P	8-759-900-32	IC SN74LS32N, TTL
IC2C, 3B	8-759-900-74	IC SN74LS74AN, TTL
IC19, 4N	8-759-900-86	IC SN74LS86N, TTL
IC5N, 5O, 5P	8-759-901-07	IC SN74LS107AN, TTL
IC4B, 4C, 5L	8-759-901-38	IC SN74LS138N, TTL
IC7, 17, 2B, 4G	8-759-902-21	IC SN74LS221N, TTL
IC4R	8-759-903-93	IC SN74LS393N, TTL
IC9, 21	8-759-952-07	IC SN75207BN
IC3, 5, 6, 14, 15, 16	8-759-990-82	IC TL082CP
Q1, 11, 12, 13	8-761-622-00	TRANSISTOR 2SC1636
Q3, 4, 5, 6, 16, 17, 21, 22, 23	8-769-192-00	TRANSISTOR 2SK43-2

Ref.No. or Q'ty	Part No.	Description
<u>CD-17 BOARD (BVH-2000PS,2180PS/CARD RACK)</u>		
Board No; 1-606-075-14 & up		
1pc	() A-6015-072-C	COMPLETE PCB,CD-17
	() A-6015-096-A	COMPLETE PCB,CD-17
		(For BVH-2000PS 10,12,14 model)
(This assembly includes the following parts.)		
1pc	() X-3673-641-0	PLATE ASSY,SHIELD
C11	1-102-074-00	CAP,CERAMIC 0.001 10% 50V
C68	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C115	1-102-113-00	CAP,CERAMIC 390PF 10% 50V
C112,113	1-102-125-00	CAP,CERAMIC 0.0047 10% 50V
C45	1-107-074-00	CAP,MICA 36PF 5% 50V
C150	1-107-077-00	CAP,MICA 47PF 5% 50V
C14,15,46,49	1-107-085-00	CAP,MICA 100PF 5% 50V
C42	1-109-555-00	CAP,MICA 560PF 5% 100V
C44	1-109-561-00	CAP,MICA 0.001 5% 100V
C148	1-124-141-00	CAP,ELECT 330 10V
C78,90	1-124-234-00	CAP,ELECT 22 25V
C1,2,10,18,21,24,25,33, 34,36,41,47,56,57,95, 103,123,134,136	1-124-236-00	CAP,ELECT 47 16V
C13	1-130-079-00	CAP,POLY 8600PF 1% 50V
C8,9,61,64,85,117,118	1-130-471-00	CAP,MYLAR 0.001 5% 50V
C50,60,63	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C31,55,121	1-130-476-00	CAP,MYLAR 0.0027 5% 50V
C30,54	1-130-480-00	CAP,MYLAR 0.0056 5% 50V
C39,99,100,107	1-130-483-00	CAP,MYLAR 0.01 5% 50V

Ref.No. or Q'ty	Part No.	Description
(CD-17 BOARD,BVH-2000PS,2180PS/CARD RACK)		
(Board No.1-606-075-14 & up)		
C127	1-130-484-00	CAP,MYLAR 0.012 5% 50V
C40	1-130-485-00	CAP,MYLAR 0.015 5% 50V
C38	1-130-487-00	CAP,MYLAR 0.022 5% 50V
C7,28,29,52,53,79,122, 126	1-130-491-00	CAP,MYLAR 0.047 5% 50V
C62,65	1-130-495-00	CAP,MYLAR 0.1 5% 50V
C5,6	1-131-345-00	CAP,TANT 0.47 10% 35V
C66	1-131-349-00	CAP,TANT 2.2 10% 35V
C74,75	1-131-350-00	CAP,TANT 3.3 10% 35V
C83,84,86,89	1-131-373-00	CAP,TANT 22 10% 16V
C87	1-131-374-00	CAP,TANT 33 10% 16V
CV1	1-141-260-00	TRIMER,CERAMIC
C3,4,12,16,17,19,20,22, 26,32,35,37,43,48,51, 58,59,67,69,71,72,73, 76,77,80,81,88,91,93, 96,98,101,102,104,105, 106,108,109,110,111, 114,116,119,124,125, 128,129,130,131,132, 133,135,137,138,139, 140,141,142,143,144, 145,146,147,149	1-162-596-00	CAP,CERAMIC 0.022 25V
R109,110	1-215-421-00	CAP,METAL 1K 1% 1/6W
R46	1-215-423-00	RES,METAL 1.2K 1% 1/6W
R41	1-215-427-00	RES,METAL 1.8K 1% 1/6W
R49	1-215-434-00	RES,METAL 3.6K 1% 1/6W
R15	1-215-435-00	RES,METAL 3.9K 1% 1/6W
R52	1-215-438-00	RES,METAL 5.1K 1% 1/6W
R8	1-215-440-00	RES,METAL 6.2K 1% 1/6W
R56	1-215-441-00	RES,METAL 6.8K 1% 1/6W
R27,63,67,73	1-215-444-00	RES,METAL 9.1K 1% 1/6W
R16,30,50,64,70,71,154, 155	1-215-445-00	RES,METAL 10K 1% 1/6W
R11,19,29,61,156,161	1-215-449-00	RES,METAL 15K 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(CD-17 BOARD,BVH-2000PS,2180PS/CARD RACK)		
(Borad No.1-606-075-14 & up)		
R13,14	1-215-452-00	RES,METAL 20K 1% 1/6W
R25,60	1-215-456-00	RES,METAL 30K 1% 1/6W
R55	1-215-463-00	RES,METAL 56K 1% 1/6W
R22	1-215-465-00	RES,METAL 68K 1% 1/6W
R21	1-215-469-00	RES,METAL 100K 1% 1/6W
RV14,15,16,17	1-224-938-00	RES,VAR,METAL 2K
RV402	1-224-939-00	RES,VAR,METAL 5K
RV2,3,6,7,8,9,10,11,12	1-224-940-00	RES,VAR,METAL 10K
RV13,401	1-224-941-00	RES,VAR,METAL 20K
RV5	1-224-942-00	RES,VAR,METAL 50K
RV4	1-228-120-00	RES,VAR,CERMET 20K
RV1	1-228-763-00	RES,VAR,CERMET 5K
RB1	1-235-109-00	RES BLOCK,22Kx8
R117	1-247-791-00	RES,CARBON 22 5% 1/6W
R57,176	1-247-799-00	RES,CARBON 47 5% 1/6W
R120	1-247-804-00	RES,CARBON 75 5% 1/6W
R163,190	1-247-807-00	RES,CARBON 100 5% 1/6W
R86	1-247-823-00	RES,CARBON 470 5% 1/6W
R24,28,75,79,147	1-247-831-00	RES,CARBON 1K 5% 1/6W
R65,66,72,74	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R43	1-247-837-00	RES,CARBON 1.8K 5% 1/6W
R44,59,68,144,145,174	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R12	1-247-842-00	RES,CARBON 3K 5% 1/6W
R4,42,45,69,146,153	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R129,159	1-247-850-00	RES,CARBON 6.2K 5% 1/6W
R94,98,122	1-247-851-00	RES,CARBON 6.8K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(CD-17 BOARD,BVH-2000PS,2180PS/CARD RACK)		
(Borad No.1-606-075-14 & up)		
R1,2,3,5,17,20,23,26,33, 38,39,48,53,54,62,76, 77,100,104,105,106,116, 119,125,130,131,141, 142,143,149,151,152, 160,162,164,165,167, 168,175,177,180,186, 187	1-247-855-00	RES,CARBON 10K 5% 1/6W
R158	1-247-857-00	RES,CARBON 12K 5% 1/6W
R136,137	1-247-858-00	RES,CARBON 13K 5% 1/6W
R95,97	1-247-859-00	RES,CARBON 15K 5% 1/6W
R115	1-247-861-00	RES,CARBON 18K 5% 1/6W
R40	1-247-862-00	RES,CARBON 20K 5% 1/6W
R36,37,82,88,89,91,133, 134,135,171,172,181, 184,185	1-247-863-00	RES,CARBON 22K 5% 1/6W
R157	1-247-864-00	RES,CARBON 24K 5% 1/6W
R170	1-247-865-00	RES,CARBON 27K 5% 1/6W
R6,7,35,118,173	1-247-866-00	RES,CARBON 30K 5% 1/6W
R114	1-247-867-00	RES,CARBON 33K 5% 1/6W
R107,108,121	1-247-869-00	RES,CARBON 39K 5% 1/6W
R9	1-247-870-00	RES,CARBON 43K 5% 1/6W
R99,101,102,103	1-247-871-00	RES,CARBON 47K 5% 1/6W
R128	1-247-873-00	RES,CARBON 56K 5% 1/6W
R58	1-247-876-00	RES,CARBON 75K 5% 1/6W
R123	1-247-878-00	RES,CARBON 91K 5% 1/6W
R10,34,80,96,112,113, 126,188	1-247-879-00	RES,CARBON 100K 5% 1/6W
R83	1-247-895-00	RES,CARBON 470K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(CD-17 BOARD,BVH-2000PS,2180PS/CARD RACK) (Borad No.1-606-075-14 & up)		
R47	1-247-901-00	RES,CARBON 820K 5% 1/6W
R85,189	1-247-903-00	RES,CARBON 1M 5% 1/6W
R111	1-249-433-11	RES,CARBON 22K 5% 1/6W
L1	1-408-421-00	INDUCTOR,MICRO,100 5%
L2,3,4	1-421-370-00	COIL,CHOKE
S3	1-516-925-21	SWITCH,DIP,8-CKT
S7	1-552-539-00	SWITCH,PUSH
S1,2	1-553-440-00	SWITCH,TOGGLE
S1(NS)	1-553-441-00	SWITCH,TOGGLE
S4,5,6	1-554-027-00	SWITCH,ROTARY
S8	1-554-080-00	SWITCH,ROTARY
TP4,5,8,9,10,11,14,15, 16,17,18,19,20,21,23, 24,30,31,401,402,403, 404,405		
()	3-657-703-01	TERMINAL,TP
TPE1,2,3,4,5,6		
()	3-673-805-11	TERMINAL,TP
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE,INDICATION, PC BOARD
1pc	() 3-674-628-00	LABEL(CD-17),PC BOARD
1pc	() 3-693-053-01	LABEL PS-NS (CD-17),PC BOARD
TP6,7,12,13		
()	3-693-032-01	TERMINAL,TP
1pc	7-621-981-15	SCREW,PSW 2.6x6
1pc	7-626-317-21	PIN,SPRING 2.5x8
D1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20,21,22,23,24, 25,26,27,28,29,30,31, 32,33,34	8-719-815-55	DIODE 1S1555

Ref.No. or Q'ty	Part No.	Description
(CD-17 BOARD,BVH-2000PS,2180PS/CARD RACK) (Borad No.1-606-075-14 & up)		
Q4,5,10	8-729-105-71	TRANSISTOR 2SK523
Q3,8	8-729-364-12	TRANSISTOR 2SC641K
Q2,7,9	8-729-600-60	TRANSISTOR 2SA1115
IC11,13,14,15		
	8-741-123-90	IC BX1239
IC29,30	8-751-300-00	IC CX130
IC2B,5A,5Q,5R,6B,6D,6E, 6L	8-759-345-03	IC MC14503BCP,CMOS
IC2D,5H	8-759-045-38	IC MC14538BCP,CMOS
IC3,4,18	8-759-101-83	IC UPC649C
IC25	8-759-103-19	IC UPC319C
IC7	8-759-104-31	IC UPD74HC02C
IC22	8-759-131-11	IC UPC311C
IC1,10,12,16,24,28		
	8-759-145-58	IC UPC4558C
IC6M,6P,6R,6S,6U		
	8-759-182-53	IC UPD8253C-5,NMOS
IC6,21,5L	8-759-203-83	IC TC74HC4538P,CMOS
IC5E,5G	8-759-205-76	IC TC4013BP
IC3C,5F	8-759-240-11	IC TC4011BP,CMOS
IC32	8-759-240-51	IC TC4051BP,CMOS
IC5C	8-759-240-71	IC TC4071BP,CMOS
IC4B	8-759-240-81	IC TC4081BP,CMOS
IC4E,6F,6G		
	8-759-241-74	IC TC40174BP,CMOS
IC4D,5B	8-759-245-20	IC TC4520BP,CMOS
IC9	8-759-708-05	IC NJM78L05A
IC31	8-759-745-60	IC NJM4560D
IC3D	8-759-900-00	IC SN74LS00N,TTL
IC3E,4F,5P,5S,5V		
	8-759-900-04	IC SN74LS04N,TTL

Ref.No. or Q'ty	Part No.	Description
(CD-17 BOARD, BVH-2000PS, 2180PS/CARD RACK)		
(Borad No. 1-606-075-14 & up)		
IC5D	8-759-900-14	IC SN74LS14N, TTL
IC6H	8-759-900-32	IC SN74LS32N, TTL
IC3F, 5J, 6J	8-759-900-74	IC SN74LS74AN, TTL
IC4C	8-759-900-86	IC SN74LS86N, TTL
IC5K, 5M, 6K	8-759-901-07	IC SN74LS107AN, TTL
IC5N, 5T, 6C	8-759-901-38	IC SN74LS138N, TTL
IC23	8-759-901-53	IC SN74LS153N, TTL
IC5U	8-759-903-93	IC SN74LS393N, TTL
IC8	8-759-910-43	IC CX23028
IC2, 5, 17, 19, 20	8-759-990-82	IC TL082CP
IC26, 27	8-759-990-84	IC TL084CP
Q1, 6	8-761-622-00	TRANSISTOR 2SC1636

Ref.No. or Q'ty	Part No.	Description
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SR-15 BOARD (BVH-2000PS, 2180PS/CARD RACK)

1pc	() A-6015-073-A	COMPLETE PCB, SR-15 (This assembly includes the following parts.)
1pc	() X-3673-641-0	PLATE ASSY, SHIELD
C111	1-102-106-00	CAP, CERAMIC 100PF 10% 50V
C20, 110	1-102-112-00	CAP, CERAMIC 330PF 10% 50V
C40	1-102-115-00	CAP, CERAMIC 560PF 10% 50V
C100	1-107-048-00	CAP, MICA 6.8PF +/-0.5PF 500V
C101	1-107-077-00	CAP, MICA 47PF 5% 50V
C13	1-107-085-00	CAP, MICA 100PF 5% 50V
C21, 68, 69, 76	1-107-093-00	CAP, MICA 220PF 5% 50V
C65	1-107-160-00	CAP, MICA 36PF 5% 500V
C15, 16	1-107-164-00	CAP, MICA 51PF 5% 500V
C34	1-107-166-00	CAP, MICA 62PF 5% 500V
C36	1-107-202-00	CAP, MICA 10PF 5% 500V
C64, 112	1-107-206-00	CAP, MICA 15PF 5% 500V
C67	1-107-210-00	CAP, MICA 22PF 5% 500V
C9, 10, 26, 87	1-108-555-00	CAP, MYLAR 0.001 5% 50V
C48	1-108-559-00	CAP, MYLAR 0.0015 5% 50V
C70, 80	1-108-563-00	CAP, MYLAR 0.0022 5% 50V
C84	1-108-571-00	CAP, MYLAR 0.0047 5% 50V
C99	1-108-575-00	CAP, MYLAR 0.0068 5% 50V
C66, 71, 91	1-108-579-00	CAP, MYLAR 0.01 5% 50V
C6, 59	1-108-587-00	CAP, MYLAR 0.022 5% 50V
C98	1-108-591-00	CAP, MYLAR 0.033 5% 50V

Ref.No. or Q'ty	Part No.	Description
(SR-15 BOARD,CARD RACK)		
C33,78,79,102	1-108-595-00	CAP,MYLAR 0.047 5% 50V
C19,103	1-108-603-00	CAP,MYLAR 0.1 5% 50V
C11	1-109-553-00	CAP,MICA 470PF 5% 100V
C75	1-109-561-00	CAP,MICA 0.001 5% 100V
C41	1-123-611-00	CAP,ELECT 1 50V
C60	1-123-616-00	CAP,ELECT 4.7 25V
C63	1-123-818-00	CAP,ELECT 22 25V
C3,4,5,23,24,25,27,28, 35,37,38,42,43,44,46, 49,53,56,58	1-123-821-00	CAP,ELECT 47 16V
C14,62,73,77,82,83,86, 89	1-123-822-00	CAP,ELECT 47 10V
C93	1-124-141-00	CAP,ELECT 330 10V
C1,2,31,90	1-131-347-00	CAP,TANT 1 10% 35V
C7,8	1-131-373-00	CAP,TANT 22 10% 16V
C12,17,18,22,29,30,39, 45,47,50,51,52,54,55, 57,61,72,74,81,85,88, 92,94,95,96,97	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
R51	1-214-118-00	RES,METAL 270 1% 1/4W
R53	1-214-120-00	RES,METAL 330 1% 1/4W
R15	1-214-130-00	RES,METAL 820 1% 1/4W
R54	1-214-134-00	RES,METAL 1.2K 1% 1/4W
R19	1-214-146-00	RES,METAL 3.9K 1% 1/4W
R18	1-214-156-00	RES,METAL 10K 1% 1/4W
R135	1-214-173-00	RES,METAL 51K 1% 1/4W
RV3	1-224-936-00	RES,VAR,METAL 500
RV4	1-224-938-00	RES,VAR,METAL 2K
RV6,7	1-224-941-00	RES,VAR,METAL 20K
RV1,2	1-224-943-00	RES,VAR,METAL 100K
RV5	1-230-741-21	RES,VAR,CARBON 10K

Ref.No. or Q'ty	Part No.	Description
(SR-15 BOARD,CARD RACK)		
R104,107,108,130,131, 132,146	1-247-783-00	RES,CARBON 10 5% 1/6W
R77,79,88	1-247-800-00	RES,CARBON 51 5% 1/6W
R46,87	1-247-804-00	RES,CARBON 75 5% 1/6W
R56,60,144,160	1-247-807-00	RES,CARBON 100 5% 1/6W
R21	1-247-811-00	RES,CARBON 150 5% 1/6W
R65,155	1-247-814-00	RES,CARBON 200 5% 1/6W
R158,170	1-247-815-00	RES,CARBON 220 5% 1/6W
R57	1-247-816-00	RES,CARBON 240 5% 1/6W
R78,117,124,154	1-247-823-00	RES,CARBON 470 5% 1/6W
R42	1-247-825-00	RES,CARBON 560 5% 1/6W
R24,134	1-247-827-00	RES,CARBON 680 5% 1/6W
R26,41,45,52,71,72,91, 94,101,103,110,111, 120,123,125	1-247-831-00	RES,CARBON 1K 5% 1/6W
R23,29,31	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R40,68,70	1-247-838-00	RES,CARBON 2K 5% 1/6W
R55,62,64,142	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R95	1-247-840-00	RES,CARBON 2.4K 5% 1/6W
R2,85,86,162	1-247-842-00	RES,CARBON 3K 5% 1/6W
R22,121,143	1-247-843-00	RES,CARBON 3.3K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description	Ref.No. or Q'ty	Part No.	Description
(SR-15 BOARD,CARD RACK)			(SR-15 BOARD,CARD RACK)		
R27	1-247-844-00	RES,CARBON 3.6K 5% 1/6W	R98	1-247-894-00	RES,CARBON 430K 5% 1/6W
R67	1-247-846-00	RES,CARBON 4.3K 5% 1/6W	R137	1-247-895-00	RES,CARBON 470K 5% 1/6W
R34,36,58	1-247-847-00	RES,CARBON 4.7K 5% 1/6W	R6	1-247-896-00	RES,CARBON 510K 5% 1/6W
			R157,159	1-247-901-00	RES,CARBON 820K 5% 1/6W
R20,47,74,82,112,113					
	1-247-848-00	RES,CARBON 5.1K 5% 1/6W	R7,8,44,63,84		
				1-247-903-00	RES,CARBON 1M 5% 1/6W
R161	1-247-850-00	RES,CARBON 6.2K 5% 1/6W			
R1	1-247-852-00	RES,CARBON 7.5K 5% 1/6W	LV1	1-407-569-00	INDUCTOR,VAR,10
			L1	1-408-415-00	INDUCTOR,MICRO,33 5%
R9,13,16,17,25,48,59,61, 76,89,90,92,93,100,102, 141,151,156			DL1	1-415-121-00	DELAY LINE,100nS
	1-247-855-00	RES,CARBON 10K 5% 1/6W	L2,3,4	1-421-370-00	COIL,CHOKE
			ME1	1-520-449-00	METER
R10,14,37,49,171			CF1	1-527-497-00	FILTER,CERAMIC 4.55MHz
	1-247-859-00	RES,CARBON 15K 5% 1/6W	X1	1-527-521-00	CRYSTAL,17.732475MHz
			S1,2	1-553-440-00	SWITCH,TOGGLE
			1pc	2-282-313-11	KNOB,CONTROL
R50,118,119					
	1-247-861-00	RES,CARBON 18K 5% 1/6W	TP2,5,8,9,12,13,14,15, 16,22,23		
			() 3-657-703-01		TERMINAL,TP
R73,80,83,96					
	1-247-862-00	RES,CARBON 20K 5% 1/6W	TPE1,2,3,4,5		
			() 3-673-805-11		TERMINAL,TP
R4,122,126,127,128,139, 148,150,152					
	1-247-863-00	RES,CARBON 22K 5% 1/6W			
R30	1-247-866-00	RES,CARBON 30K 5% 1/6W			
R28,33,97,99					
	1-247-871-00	RES,CARBON 47K 5% 1/6W			
R5,39	1-247-872-00	RES,CARBON 51K 5% 1/6W			
R43	1-247-875-00	RES,CARBON 68K 5% 1/6W			
R11,12,35,38,66,136,140, 147,149					
	1-247-879-00	RES,CARBON 100K 5% 1/6W			
R32	1-247-883-00	RES,CARBON 150K 5% 1/6W			
R3	1-247-886-00	RES,CARBON 200K 5% 1/6W			
R81,138	1-247-892-00	RES,CARBON 360K 5% 1/6W			
R75	1-247-893-00	RES,CARBON 390K 5% 1/6W			

Ref.No. or Qty	Part No.	Description
(SR-15 BOARD,CARD RACK)		
1pc	() 3-673-865-00	LEVER,WITH PIN
1pc	() 3-673-867-00	PLATE, INDICATION, PC BOARD
1pc	() 3-674-626-00	LABEL(SR-15),PC BOARD
TP1,3,4,17,25	() 3-693-032-01	TERMINAL,TP
1pc	7-621-737-08	SET SCREW, 2.6x3,FLAT POINT
4pcs	7-621-981-15	SCREW,PSW 2.6x6
2pcs	() 7-626-317-21	PIN,SPRING 2.5x8
D7	8-719-100-27	DIODE RD4.7E-B2
D6	8-719-175-07	DIODE RD7.5E
D2	8-719-713-92	DIODE 1S2139B
D1,3,4,8,9,10,11,12,13, 14,15,16	8-719-815-55	DIODE 1S1555
Q10	8-723-305-00	TRANSISTOR 2SK43-5
Q5	8-729-117-54	TRANSISTOR 2SA1175
Q3,4	8-729-364-12	TRANSISTOR 2SC641K
Q2,7,8,13,14,15,16,19	8-729-603-50	TRANSISTOR 2SC403SP
Q17,18	8-729-606-32	TRANSISTOR 2SC2603
IC12,13	8-743-931-10	IC BX3931A
IC3	8-749-938-10	IC BX381
IC6	8-751-300-00	IC CX130
IC3K,4I,4K	8-759-045-38	IC MC14538BCP,CMOS
IC15,16	8-759-103-92	IC UPC318C
IC4J,5D	8-759-240-11	IC TC4011BP,CMOS
IC3E,3N,5I,5L	8-759-240-13	IC TC4013BP,CMOS
IC5F,5H	8-759-240-15	IC TC4015BP,CMOS
IC5K	8-759-240-40	IC TC4040BP,CMOS
IC5M	8-759-240-71	IC TC4071BP,CMOS

Ref.No. or Qty	Part No.	Description
(SR-15 BOARD,CARD RACK)		
IC4N	8-759-241-74	IC TC40174BP,CMOS
IC4M,5N	8-759-345-03	IC HD14503BP,CMOS
IC3D,3H	8-759-900-00	IC SN74LS00N,TTL
IC5G	8-759-900-02	IC SN74LS02N,TTL
IC3C,3J,3O,4O	8-759-900-04	IC SN74LS04N,TTL
IC4D	8-759-900-08	IC SN74LS08N,TTL
IC3L,5C	8-759-900-32	IC SN74LS32N,TTL
IC4B,4E,4F,4H	8-759-900-74	IC SN74LS74AN,TTL
IC3M	8-759-900-86	IC SN74LS86N,TTL
IC4C,4L	8-759-901-07	IC SN74LS107AN,TTL
IC2C,2D,2E	8-759-901-12	IC SN74LS112AN,TTL
IC5J	8-759-901-57	IC SN74LS157N,TTL
IC4G	8-759-901-63	IC SN74LS163AN,TTL
IC3F	8-759-901-64	IC SN74LS164N,TTL
IC3I	8-759-902-21	IC SN74LS221N,TTL
IC2F	8-759-910-10	IC SN74S10N,TTL
IC2G	8-759-910-11	IC SN74S11N,TTL
IC5E	8-759-911-63	IC SN74S163N,TTL
IC9	8-759-918-23	IC NE527N
IC3B	8-759-941-23	IC SN74123N,TTL
IC14	8-759-951-07	IC SN75107AN
IC1,2,4,5,7,8	8-759-990-82	IC TL082CP
Q9	8-761-622-00	TRANSISTOR 2SC1636
Q1,6,11,12	8-769-192-00	TRANSISTOR 2SK43-2

Ref.No.
or Q'ty Part No. Description

DT-05 BOARD. (BVH-2000PS-02,04,12,14/2180PS-02,04)

1pc (for 02/04/12/14 model)

() A-6015-074-B COMPLETE PCB,DT-05
(This assembly includes the following parts.)

1pc	() X-3673-678-0	PLATE ASSY,SHIELD(A)
C1,2	1-107-077-00	CAP,MICA 47PF 5% 50V
C4	1-107-206-00	CAP,MICA 15PF 5% 500V
C74	1-109-535-00	CAP,MICA 100PF 5% 100V
C47,52,69,75	1-109-540-00	CAP,MICA 180PF 5% 100V
C66,72	1-109-542-00	CAP,MICA 220PF 5% 100V
C70	1-109-547-00	CAP,MICA 330PF 5% 100V
C67,68,71,73	1-109-561-00	CAP,MICA 0.001 5% 100V
C3,45,83,86,90,91,92,93, 117,118	1-123-356-00	CAP,ELECT 10 50V
C6,11,17,23,25,33,34,36, 38	1-130-471-00	CAP,MYLAR 0.001 5% 50V
C32,35	1-130-473-00	CAP,MYLAR 0.0015 5% 50V
C31,37,40,42,53,80	1-130-475-00	CAP,MYLAR 0.0022 5% 50V
C8,19,20,24,27,28,41,76	1-130-479-00	CAP,MYLAR 0.0047 5% 50V
C26,62,63	1-130-483-00	CAP,MYLAR 0.01 5% 50V
C7,48,60	1-130-484-00	CAP,MYLAR 0.012 5% 50V
C18,65,119	1-130-485-00	CAP,MYLAR 0.015 5% 50V
C5,10	1-130-487-00	CAP,MYLAR 0.022 5% 50V
C13,14	1-130-491-00	CAP,MYLAR 0.047 5% 50V
C64	1-130-493-00	CAP,MYLAR 0.068 5% 50V
C21,43,44	1-131-341-00	CAP,TANT 0.1 10% 35V

Ref.No.
or Q'ty Part No. Description

(DT-05 BOARD,CARD RACK)

C15,16	1-131-342-00	CAP,TANT 0.15 10% 35V
C61	1-131-343-00	CAP,TANT 0.22 10% 35V
C9,12	1-131-345-00	CAP,TANT 0.47 10% 35V
C22,39	1-131-351-00	CAP,TANT 4.7 10% 35V
C29,30	1-131-380-00	CAP,TANT 33 10% 10V
C46,77,78,79,81,82,85, 88,89,94,95,96,97,98, 99,100,101,102,103,104, 105,106,107,108,109, 110,111,112,113	1-161-051-00	CAP,CERAMIC 0.01 10% 50V
R63,64,67,68	1-214-112-00	RES,METAL 150 1% 1/4W
R119	1-214-120-00	RES,METAL 330 1% 1/4W
R2,35,65,110	1-214-124-00	RES,METAL 470 1% 1/4W
R12,13,45,46,112,127	1-214-132-00	RES,METAL 1K 1% 1/4W
R39	1-214-136-00	RES,METAL 1.5K 1% 1/4W
R15,16,18,40,49,55	1-214-139-00	RES,METAL 2K 1% 1/4W
R14,48,80,81,82,84,142	1-214-143-00	RES,METAL 3K 1% 1/4W
R21,69,70,72,97	1-214-148-00	RES,METAL 4.7K 1% 1/4W
R34,51	1-214-151-00	RES,METAL 6.2K 1% 1/4W
R8	1-214-152-00	RES,METAL 6.8K 1% 1/4W
R66,113	1-214-154-00	RES,METAL 8.2K 1% 1/4W
R85	1-214-155-00	RES,METAL 9.1K 1% 1/4W
R17,24,26,27,43,53,58, 59,60,62,83,86,88,102, 106,107,108,109,123, 125,129,130,131,132, 134,137,140	1-214-156-00	RES,METAL 10K 1% 1/4W
R11,36	1-214-159-00	RES,METAL 13K 1% 1/4W

Ref.No. or Q'ty	Part No.	Description
(DT-05 BOARD,CARD RACK)		
R7,78,79,90	1-214-160-00	RES,METAL 15K 1% 1/4W
R10,18	1-214-162-00	RES,METAL 18K 1% 1/4W
R95,118,126	1-214-163-00	RES,METAL 20K 1% 1/4W
R1,4,121,122	1-214-164-00	RES,METAL 22K 1% 1/4W
R28,100,143,145	1-214-165-00	RES,METAL 24K 1% 1/4W
R19,31	1-214-166-00	RES,METAL 27K 1% 1/4W
R124,128	1-214-170-00	RES,METAL 39K 1% 1/4W
R74,77,93	1-214-172-00	RES,METAL 47K 1% 1/4W
R144	1-214-175-00	RES,METAL 62K 1% 1/4W
R41,42,56,57	1-214-176-00	RES,METAL 68K 1% 1/4W
R29	1-214-178-00	RES,METAL 82K 1% 1/4W
R22,71,73,75,76,91,92, 103	1-214-179-00	RES,METAL 91K 1% 1/4W
R20,23,25,38,44,47,54, 89,101,104,105,111,114, 115,116,120,135,141	1-214-180-00	RES,METAL 100K 1% 1/4W
R9,87,94	1-224-938-00	RES,VAR,METAL 2K
R33,99	1-224-939-00	RES,VAR,METAL 5K
R3,5,6,50,52,96,98,138	1-224-940-00	RES,VAR,METAL 10K
R61	1-224-941-00	RES,VAR,METAL 20K
R30	1-224-942-00	RES,VAR,METAL 50K
R139	1-224-943-00	RES,VAR,METAL 100K
RB2	1-231-407-00	RES BLOCK,2.2Kx8

Ref.No. or Q'ty	Part No.	Description
(DT-05 BOARD,CARD RACK)		
RB1	1-231-410-00	RES BLOCK,10Kx8
RB3	1-231-517-00	RES BLOCK,2.2Kx4
R146	1-247-873-00	RES,CARBON 56K 5% 1/6W
R37	1-247-891-00*	RES,CARBON 330K 5% 1/6W
R117	1-247-895-00	RES,CARBON 470K 5% 1/6W
R147	1-249-432-11	RES,CARBON 18K 5% 1/6W
L1	1-421-370-00	COIL,CHOKE
S1	1-516-923-21	SWITCH,DIP,4-CKT
X1	1-527-227-00	CRYSTAL,14.31818MHZ
S3,4	1-552-509-00	SWITCH,DIP,1-CKT
S2	1-553-440-00	SWITCH,TOGGLE
TP1,2,3,4,5,6,7,8,9,10 () 3-693-032-01		TERMINAL,TP
TPE1,2,3 () 3-673-805-11		TERMINAL,TP
1pc () 3-673-865-00		LEVER,WITH PIN
1pc () 3-673-867-00		PLATE,INDICATION, PC BOARD
1pc () 3-674-625-03		LABEL(DT-05),PC BOARD
4pcs 7-621-981-15		SCREW,PSW2.6x6
2pcs () 7-626-317-21		PIN,SPRING 2.5x8
D8,9 8-719-156-07		DIODE RD5.6E-B
D1,2,3,4,5,6,7,10,11 8-719-911-19		DIODE 1SS119
Q1 8-729-190-12		TRANSISTOR 2SC2901
IC2K 8-759-014-96		IC MC1496P
IC3H 8-759-040-46		IC MC14046BCP,CMOS
IC3G 8-759-045-26		IC MC14526BCP,CMOS
IC50 8-759-045-57		IC MC14557BCP,CMOS
IC1F,1H,1N,2J,2M,2P 8-759-145-58		IC UPC4558C
IC5H,5I 8-759-200-55		IC TC40H390P,CMOS
IC4M 8-759-240-01		IC TC4001BP,CMOS
IC3D,4D 8-759-240-08		IC TC4008BP,CMOS
IC40,4Q 8-759-240-11		IC TC4011BP,CMOS

Ref.No. or Q'ty	Part No.	Description
(DT-05 BOARD,CARD RACK)		
IC3I,4I,4J	8-759-240-13	IC TC4013BP,CMOS
IC3P	8-759-240-15	IC TC4015BP,CMOS
IC2E	8-759-240-28	IC TC4028BP,CMOS
IC4G	8-759-240-43	IC TC4043BP,CMOS
IC3L,5L	8-759-240-69	IC TC4069UBP,CMOS
IC4L	8-759-240-71	IC TC4071BP,CMOS
IC5J	8-759-240-73	IC TC4073BP,CMOS
IC4H,4K,5G	8-759-240-81	IC TC4081BP,CMOS
IC3E	8-759-241-75	IC TC40175BP,CMOS
IC5F	8-759-245-12	IC TC4512BP,CMOS
IC5M	8-759-345-38	IC HD14538BP,CMOS
IC5D	8-759-900-00	IC SN74LS00N,TTL
IC3K,3Q,4A,5P	8-759-900-02	IC SN74LS02N,TTL
IC2B	8-759-900-10	IC SN74LS10N,TTL
IC3N,5E	8-759-900-74	IC SN74LS74AN,TTL
IC2C	8-759-900-85	IC SN74LS85N,TTL
IC1Q	8-759-901-63	IC SN74LS163AN,TTL
IC5N	8-759-901-64	IC SN74LS164N,TTL
IC1C,1D,2D	8-759-901-74	IC SN74LS174N,TTL
IC2Q,5C	8-759-901-75	IC SN74LS175N,TTL
IC1A,1B,3A,3B,4B	8-759-901-91	IC SN74LS191N,TTL
IC2,3F,3J,3M,3O,4F,5K	8-759-902-21	IC SN74LS221N,TTL
IC4C	8-759-903-74	IC SN74LS374N,TTL
IC5B	8-759-903-93	IC SN74LS393N,TTL
IC1	8-759-906-07	IC TL607CP
IC2A,4E	8-759-906-69	IC SN74LS669N,TTL

Ref.No. or Q'ty	Part No.	Description
(DT-05 BOARD,CARD RACK)		
IC1I,1M,2H	8-759-921-91	IC TL191CN
IC4N	8-759-974-06	IC SN7406N,TTL
IC1E	8-759-980-02	IC DAC1C8BC
IC1P,2F,2N	8-759-990-04	IC TL074CN
IC1J,1L,2I	8-759-990-72	IC TL072CP

MB-14A BOARD (BVH-2000PS,2180PS/CARD RACK)

1pc () A-6025-092-A COMPLETE PCB,MB-14
(This assembly includes the following parts.)

C2	1-125-235-00	CAP,ELECT 0.47F 5V
C1	1-161-051-00	CAP,CERAMIC 0.01 10% 50V

R1 1-213-132-00 Δ RES,METAL 120 5% 1W

R2 1-247-214-00 Δ RES,CARBON 82 5% 1/2W

CN331,332,333,334,335,
336,337,338,339,340,
341,342,343,344,345,
346,347,348
1-508-892-00 CONNECTOR,PCB,100P

CN327M,402M,403M
() 1-560-300-00 RECEP,3P,MALE

CN401M () 1-560-301-00 RECEP,4P,MALE

CN303M,306M
() 1-560-304-00 RECEP,8P,MALE

CN302M,305M
() 1-560-305-00 RECEP,10P,MALE

Ref.No. or Q'ty	Part No.	Description
(MB-14A BOARD,CARD RACK)		
CN301M,304M		
() 1-560-306-00		RECEP,12P,MALE
CN317M () 1-560-726-00		RECEP,20P,MALE
CN315M,324M		
() 1-560-727-00		RECEP,26P,MALE
CN314M,325M		
() 1-560-728-00		RECEP,30P,MALE
CN323M () 1-560-729-00		RECEP,34P,MALE
CN322M () 1-560-730-00		RECEP,40P,MALE
CN313M () 1-560-731-00		RECEP,50P,MALE
CN316M,326M		
() 1-560-732-00		RECEP,60P,MALE
CN321M () 1-560-753-00		RECEP,5P,MALE
CN307M,308M,309M,310M, 311M,312M		
1-561-365-00		RECEP,COAXIAL,MALE
17pcs	7-686-527-01	SCREW,PSW 3x6
D3	8-719-200-02	DIODE 10E2
D1,2	8-719-815-55	DIODE 1S1555

Ref.No. or Q'ty	Part No.	Description
AP-12 BOARD (BVH-2000PS-00,02,10,12/2180PS-00,02)		
1pc (for 00/02/10/12 model)		
() A-6013-068-A COMPLETE PCB,AP-12		
(This assembly includes the following parts.)		
C116,216,316		
1-102-106-00		CAP,CERAMIC 100PF 10% 50V
C101,201	1-107-042-00	CAP,MICA 2.2PF +/-0.5PF 500V
C511	1-107-173-00	CAP,MICA 150PF 5% 500V
C106,206,306		
1-107-204-00		CAP,MICA 12PF 5% 500V
C301	1-107-208-00	CAP,MICA 18PF 5% 500V
C503,686	1-108-560-00	CAP,MYLAR 0.0016 5% 50V
C117,217	1-109-528-00	CAP,MICA 51PF 5% 100V
C317,322	1-109-531-00	CAP,MICA 68PF 5% 100V
C114,214	1-109-534-00	CAP,MICA 91PF 5% 100V
C314	1-109-545-00	CAP,MICA 270PF 5% 100V
C681	1-109-547-00	CAP,MICA 330PF 5% 100V
C102,202,601,621		
1-109-549-00		CAP,MICA 390PF 5% 100V
C703	1-109-556-00	CAP,MICA 620PF 5% 100V
C121,221	1-109-588-00	CAP,MICA 0.002 5% 500V
C321	1-109-595-00	CAP,MICA 0.0039 5% 500V
C113,213,313		
1-109-668-00		CAP,MICA 62PF 5% 500V
C702	1-124-002-11	CAP,ELECT,NONPOLAR 1 50V
C701	1-124-006-11	CAP,ELECT,NONPOLAR 10 50V
C1,2,110,111,210,211, 310,311	1-124-445-00	CAP,ELECT 100 20% 16V
C688	1-124-472-11	CAP,ELECT 470 20% 10V
C104,204,304,610,613, 630,633,650,653,684, 685	1-124-477-11	CAP,ELECT 47 20% 25V
C119,120,219,220,319, 320,504,505,507,508, 604,605,624,625,644, 645	1-124-896-00	CAP,ELECT 33 20% 16V

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-00,02,10,12/2180PS-00,02,TTP)		
C689	1-124-907-00	CAP,ELECT 10 20% 50V
C641	1-130-473-00	CAP,MYLAR 0.0015 5% 50V
C704	1-130-477-00	CAP,MYLAR 0.0033 5% 50V
C506	1-130-479-00	CAP,MYLAR 0.0047 5% 50V
C642	1-130-483-00	CAP,MYLAR 0.01 5% 50V
C682	1-130-485-00	CAP,MYLAR 0.015 5% 50V
C602,622	1-130-487-00	CAP,MYLAR 0.022 5% 50V
C107,207,307	1-130-495-00	CAP,MYLAR 0.1 5% 50V
C510	1-130-497-00	CAP,MYLAR 0.15 5% 50V
C108,115,208,215,308,315	1-131-351-00	CAP,TANT 4.7 10% 35V
C118,218,318,513,609, 629,649	1-131-353-00	CAP,TANT 10 10% 35V
C514	1-131-381-00	CAP,TANT 47 10% 10V
C519	1-131-427-00	CAP,TANT 220 20% 6.3V
C105,205,305,518,608, 628,648	1-131-429-00	CAP,TANT 470 20% 3.15V
C3,4,103,109,112,203, 209,212,303,309,312, 611,612,631,632,651, 652	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
C11,12,13	1-163-168-00	CAP,CHIP CERAMIC 30PF 5% 50V
R516	1-210-828-00	RES,CARBON 4.7M 5% 1/4W
R524	1-215-412-00	RES,METAL 430 1% 1/6W
R329,332	1-215-418-00	RES,METAL 750 1% 1/6W
R302	1-215-428-00	RES,METAL 2K 1% 1/6W
R101,201,301	1-215-440-00	RES,METAL 6.2K 1% 1/6W
R110,210,310,682	1-215-442-00	RES,METAL 7.5K 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-00,02,10,12/2180PS-00,02,TTP)		
R511	1-215-448-00	RES,METAL 13K 1% 1/6W
R102,202,602,622	1-215-454-00	RES,METAL 24K 1% 1/6W
R127,128,227,228,327, 328	1-215-462-00	RES,METAL 51K 1% 1/6W
R520	1-215-470-00	RES,METAL 110K 1% 1/6W
R115,116,215,216,315, 316	1-247-783-00	RES,CARBON 10 5% 1/6W
R605,625,645	1-247-793-00	RES,CARBON 27 5% 1/6W
R105,205,305,685	1-247-799-00	RES,CARBON 47 5% 1/6W
R118,218,318	1-247-803-00	RES,CARBON 68 5% 1/6W
R106,120,121,206,220, 221,306,320,321,509, 517,688,689	1-247-807-00	RES,CARBON 100 5% 1/6W
R131,231,331	1-247-815-00	RES,CARBON 220 5% 1/6W
R606,626,646,686	1-247-817-00	RES,CARBON 270 5% 1/6W
R601,621	1-247-827-00	RES,CARBON 680 5% 1/6W
R507,508,518,608,609, 628,629,648,649,681	1-247-831-00	RES,CARBON 1K 5% 1/6W
R514,641	1-247-833-00	RES,CARBON 1.2K 5% 1/6W
R129,132,133,229,232, 233,333,523	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R104,204,304,505	1-247-839-00	RES,CARBON 2.2K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, TTP)		
R123, 223, 501, 502		
	1-247-843-00	RES, CARBON 3.3K 5% 1/6W
R113, 117, 119, 213, 217, 219, 313, 317, 319		
	1-247-847-00	RES, CARBON 4.7K 5% 1/6W
R108, 208, 308		
	1-247-849-00	RES, CARBON 5.6K 5% 1/6W
R109, 111, 209, 211, 309, 311, 323, 642		
	1-247-851-00	RES, CARBON 6.8K 5% 1/6W
R324, 510	1-247-857-00	RES, CARBON 12K 5% 1/6W
R503	1-247-859-00	RES, CARBON 15K 5% 1/6W
R103, 203, 303		
	1-247-861-00	RES, CARBON 18K 5% 1/6W
R107, 112, 122, 125, 207, 212, 222, 225, 307, 312, 322, 325, 512, 513, 519, 525		
	1-247-863-00	RES, CARBON 22K 5% 1/6W
R124, 224	1-247-867-00	RES, CARBON 33K 5% 1/6W
R526, 701	1-247-871-00	RES, CARBON 47K 5% 1/6W
R126, 130, 226, 230, 326, 330, 522, 703		
	1-247-879-00	RES, CARBON 100K 5% 1/6W
R114, 214, 314		
	1-247-887-00	RES, CARBON 220K 5% 1/6W
R521, 702	1-247-893-00	RES, CARBON 390K 5% 1/6W
R604, 624	1-247-897-00	RES, CARBON 560K 5% 1/6W
R504, 644, 684		
	1-247-903-00	RES, CARBON 1M 5% 1/6W
L301	1-408-423-00	INDUCTOR, MICRO, 150 5%
L101, 201	1-408-427-00	INDUCTOR, MICRO, 330 5%
L501, 681	1-408-428-00	INDUCTOR, MICRO, 390 5%
LV101, 201, 301		
	1-407-301-00	INDUCTOR, VAR, 9mH

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, TTP)		
L102, 202	1-407-502-00	INDUCTOR, MICRO, 6.8mH 5%
RY501	1-515-477-00	RELAY, 12V
RY101, 201, 301		
	1-515-518-00	RELAY, 5V
FB1, 2	1-535-178-00	FERRITE BEAD
CN361M ()	1-560-302-00	RECEP, 5P, MALE
CN360M ()	1-560-304-00	RECEP, 8P, MALE
CN363M ()	1-560-305-00	RECEP, 10P, MALE
CN364M ()	1-560-306-00	RECEP, 12P, MALE
CN354M, 355M		
()	1-560-310-00	RECEP, 4P, MALE
CN353M ()	1-560-311-00	RECEP, 5P, MALE
CN351M ()	1-560-312-00	RECEP, 6P, MALE
CN356M ()	1-560-313-00	RECEP, 8P, MALE
CN357M ()	1-560-314-00	RECEP, 10P, MALE
CN350M, 352M		
()	1-560-315-00	RECEP, 12P, MALE
TP101, 102, 103, 201, 202, 203, 301, 302, 303, 501		
()	3-673-703-01	TERMINAL, TP
TPE101, 102, 201, 202, 301, 302, 501		
()	3-657-703-01	TERMINAL, TP
2pcs	7-686-527-01	SCREW, PSW 3x6
D101, 201, 301, 501, 502, 503, 504, 701		
	8-719-815-55	DIODE 1S1555
D505, D506, D507		
	8-719-930-33	LED, GL3PR3, RED
Q102, 103, 202, 203, 302, 303		
	8-729-102-35	TRANSISTOR 2SK162
Q101, 105, 106, 201, 205, 206, 301, 305, 306		
	8-729-307-58	TRANSISTOR 2SC1775A

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, TTP)		
Q109, 209, 309, 602, 622, 642	8-729-373-92	TRANSISTOR 2SB739
Q108, 208, 308, 501, 601, 621, 641	8-729-378-84	TRANSISTOR 2SD788
Q107, 207, 307	8-729-387-28	TRANSISTOR 2SA872-E
Q104, 204, 304	8-729-679-82	TRANSISTOR 2SA798
IC501, 601, 602, 603, 605	8-759-602-01	IC M5220P
IC101, 201, 301	8-759-745-59	IC NJM4559D
IC502	8-759-990-82	IC TL082CP
Q502	8-761-622-00	TRANSISTOR 2SC1636
Q503, 701	8-769-192-00	TRANSISTOR 2SK43-2

AP-12 BOARD (BVH-2000PS-04, 14/2180PS-04/TTP)

1pc (for 04, 14 model)

() A-6013-069-A COMPLETE PCB, AP-12
(This assembly includes the following parts.)

C116, 216, 316, 416	1-102-106-00	CAP, CERAMIC 100PF 10% 50V
C101, 201, 401	1-107-042-00	CAP, MICA 2.2PF +/-0.5PF 500V
C106, 206, 306, 406	1-107-204-00	CAP, MICA 12PF 5% 500V

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-04, 14/2180PS-04, TTP)		
C301	1-107-208-00	CAP, MICA 18PF 5% 500V
C503, 686	1-108-560-00	CAP, MYLAR 0.0016 5% 50V
C117, 217, 417	1-109-528-00	CAP, MICA 51PF 5% 100V
C317, 322	1-109-531-00	CAP, MICA 68PF 5% 100V
C114, 214, 414	1-109-534-00	CAP, MICA 91PF 5% 100V
C314	1-109-545-00	CAP, MICA 270PF 5% 100V
C681	1-109-547-00	CAP, MICA 330PF 5% 100V
C102, 202, 402, 601, 621, 661	1-109-549-00	CAP, MICA 390PF 5% 100V
C703	1-109-556-00	CAP, MICA 620PF 5% 100V
C121, 221, 421	1-109-588-00	CAP, MICA 0.002 5% 500V
C321	1-109-595-00	CAP, MICA 0.0039 5% 500V
C113, 213, 313, 413	1-109-668-00	CAP, MICA 62PF 5% 500V
C702	1-124-002-11	CAP, ELECT, NONPOLAR 1 50V
C701	1-124-006-11	CAP, ELECT, NONPOLAR 10 50V
C1, 2, 110, 111, 210, 211, 310, 311, 410, 411	1-124-445-00	CAP, ELECT 100 20% 16V
C104, 204, 304, 404, 610, 613, 630, 633, 650, 653, 670, 673, 684, 685	1-124-477-11	CAP, ELECT 47 20% 25V
C119, 120, 219, 220, 319, 320, 419, 420, 504, 505, 507, 508, 604, 605, 624, 625, 644, 645, 664, 665	1-124-896-00	CAP, ELECT 33 20% 16V
C689	1-124-907-00	CAP, ELECT 10 20% 50V

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-04, 14/2180PS-04, TTP)		
C641	1-130-473-00	CAP, MYLAR 0.0015 5% 50V
C704	1-130-477-00	CAP, MYLAR 0.0033 5% 50V
C506	1-130-479-00	CAP, MYLAR 0.0047 5% 50V
C642	1-130-483-00	CAP, MYLAR 0.01 5% 50V
C682	1-130-485-00	CAP, MYLAR 0.015 5% 50V
C602, 622, 662	1-130-487-00	CAP, MYLAR 0.022 5% 50V
C107, 207, 307, 407	1-130-495-00	CAP, MYLAR 0.1 5% 50V
C510	1-130-497-00	CAP, MYLAR 0.15 5% 50V
C108, 115, 208, 215, 308, 315, 408, 415	1-131-351-00	CAP, TANT 4.7 10% 35V
C118, 218, 318, 418, 513, 609, 629, 649, 669	1-131-353-00	CAP, TANT 10 10% 35V
C514	1-131-381-00	CAP, TANT 47 20% 10V
C519	1-131-427-00	CAP, TANT 220 20% 6.3V
C105, 205, 305, 405, 518, 608, 628, 648, 668	1-131-429-00	CAP, TANT 470 20% 3.15V
C3, 4, 103, 109, 112, 203, 209, 212, 303, 309, 312, 403, 409, 412, 611, 612, 631, 632, 651, 652, 671, 672	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
C11, 12, 13	1-163-168-00	CAP, CHIP CERAMIC 30PF 5% 50V
R516	1-210-828-00	RES, CARBON 4.7M 5% 1/4W
R524	1-215-412-00	RES, METAL 430 1% 1/6W
R329, 332	1-215-418-00	RES, METAL 750 1% 1/6W
R302	1-215-428-00	RES, METAL 2K 1% 1/6W
R101, 201, 301, 401	1-215-440-00	RES, METAL 6.2K 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-04, 14/2180PS-04, TTP)		
R110, 210, 310, 410, 682	1-215-442-00	RES, METAL 7.5K 1% 1/6W
R511	1-215-448-00	RES, METAL 13K 1% 1/6W
R102, 202, 402, 602, 622, 662	1-215-454-00	RES, METAL 24K 1% 1/6W
R127, 128, 227, 228, 327, 328, 427, 428	1-215-462-00	RES, METAL 51K 1% 1/6W
R520	1-215-470-00	RES, METAL 110K 1% 1/6W
R115, 116, 215, 216, 315, 316, 415, 416	1-247-783-00	RES, CARBON 10 5% 1/6W
R605, 625, 645, 665	1-247-793-00	RES, CARBON 27 5% 1/6W
R105, 205, 305, 405, 685	1-247-799-00	RES, CARBON 47 5% 1/6W
R118, 218, 318, 418	1-247-803-00	RES, CARBON 68 5% 1/6W
R106, 120, 121, 206, 220, 221, 306, 320, 321, 406, 420, 421, 509, 517, 688, 689	1-247-807-00	RES, CARBON 100 5% 1/6W
R131, 231, 331, 431	1-247-815-00	RES, CARBON 220 5% 1/6W
R606, 626, 646, 666, 686	1-247-817-00	RES, CARBON 270 5% 1/6W
R601, 621, 661	1-247-827-00	RES, CARBON 680 5% 1/6W
R507, 508, 518, 608, 609, 628, 629, 648, 649, 668, 669, 681	1-247-831-00	RES, CARBON 1K 5% 1/6W
R514, 641	1-247-833-00	RES, CARBON 1.2K 5% 1/6W
R129, 132, 133, 229, 232, 233, 333, 429, 432, 433, 523	1-247-835-00	RES, CARBON 1.5K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-04, 14/2180PS-04, TTP)		
R104, 204, 304, 404, 505	1-247-839-00	RES, CARBON 2.2K 5% 1/6W
R123, 223, 423, 501, 502	1-247-843-00	RES, CARBON 3.3K 5% 1/6W
R113, 117, 119, 213, 217, 219, 313, 317, 319, 413, 417, 419	1-247-847-00	RES, CARBON 4.7K 5% 1/6W
R108, 208, 308, 408	1-247-849-00	RES, CARBON 5.6K 5% 1/6W
R109, 111, 209, 211, 309, 311, 323, 409, 411, 642	1-247-851-00	RES, CARBON 6.8K 5% 1/6W
R324, 510	1-247-857-00	RES, CARBON 12K 5% 1/6W
R511	1-247-858-00	RES, CARBON 13K 5% 1/6W
R503	1-247-859-00	RES, CARBON 15K 5% 1/6W
R103, 203, 303, 403	1-247-861-00	RES, CARBON 18K 5% 1/6W
R107, 112, 122, 125, 207, 212, 222, 225, 307, 312, 322, 325, 407, 412, 422, 425, 512, 513, 519, 525	1-247-863-00	RES, CARBON 22K 5% 1/6W
R124, 224, 424	1-247-867-00	RES, CARBON 33K 5% 1/6W
R526, 701	1-247-871-00	RES, CARBON 47K 5% 1/6W
R126, 130, 226, 230, 326, 330, 426, 430, 522, 703	1-247-879-00	RES, CARBON 100K 5% 1/6W
R114, 214, 314, 414	1-247-887-00	RES, CARBON 220K 5% 1/6W
R521, 702	1-247-893-00	RES, CARBON 390K 5% 1/6W
R604, 624, 664	1-247-897-00	RES, CARBON 560K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-04, 14/2180PS-04, TTP)		
R504, 644, 684	1-247-903-00	RES, CARBON 1M 5% 1/6W
L301	1-408-423-00	INDUCTOR, MICRO, 150 5%
L101, 201, 401	1-408-427-00	INDUCTOR, MICRO, 330 5%
L501, 681	1-408-428-00	INDUCTOR, MICRO, 390 5%
LV101, 201, 301, 401	1-407-301-00	INDUCTOR, VAR, 9mH
L102, 202, 402	1-407-502-00	INDUCTOR, MICRO, 6.8mH 5%
RY501	1-515-477-00	RELAY, 12V
RY101, 201, 301, 401	1-515-518-00	RELAY, 5V
FB1, 2	1-535-178-00	FERRITE BEAD
CN362M ()	1-560-301-00	RECEP, 4P, MALE
CN361M, 365M ()	1-560-302-00	RECEP, 5P, MALE
CN360M ()	1-560-304-00	RECEP, 8P, MALE
CN363M ()	1-560-305-00	RECEP, 10P, MALE
CN364M ()	1-560-306-00	RECEP, 12P, MALE
CN354M, 355M ()	1-560-310-00	RECEP, 4P, MALE
CN353M ()	1-560-311-00	RECEP, 5P, MALE
CN351M ()	1-560-312-00	RECEP, 6P, MALE
CN356M ()	1-560-313-00	RECEP, 8P, MALE
CN357M ()	1-560-314-00	RECEP, 10P, MALE
CN350M, 352M ()	1-560-315-00	RECEP, 12P, MALE
TP101, 102, 103, 201, 202, 203, 301, 302, 303, 401, 402, 403, 501 ()	3-657-703-01	TERMINAL, TP

Ref.No. or Q'ty	Part No.	Description
(AP-12 BOARD, 2000PS-04, 14/2180PS-04, TTP)		
TPE101, 102, 201, 202, 301, 302, 401, 402, 501	() 3-673-805-11	TERMINAL, TP
2pcs	7-686-527-01	SCREW, PSW3x6
D101, 201, 301, 401, 501, 502, 503, 504, 701	8-719-815-55	DIODE 1S1555
D505, 506, 507	8-719-930-33	LED GL3PR3, LED
Q102, 103, 202, 203, 302, 303, 402, 403	8-729-102-35	TRANSISTOR 2SK162
Q101, 105, 106, 201, 205, 206, 301, 305, 306, 401, 405, 406	8-729-307-58	TRANSISTOR 2SC1775A
Q109, 209, 309, 409, 602, 622, 642, 662	8-729-373-92	TRANSISTOR 2SB739
Q108, 208, 308, 408, 501, 601, 621, 641, 661	8-729-378-84	TRANSISTOR 2SD788
Q107, 207, 307, 407	8-729-387-28	TRANSISTOR 2SA872-E
Q104, 204, 304, 404	8-729-679-82	TRANSISTOR 2SA798
IC501, 601, 602, 603, 604, 605	8-759-602-01	IC M5220P
IC101, 201, 301, 401	8-759-745-59	IC NJM4559D
IC502	8-759-990-82	IC TL082CP
Q502	8-761-622-00	TRANSISTOR 2SC1636
Q503, 701	8-769-192-00	TRANSISTOR 2SK43-2

Ref.No. or Q'ty	Part No.	Description
<u>BE-02 BOARD (BVH-2000PS, 2180PS/TTP)</u>		
1pc (for 00/02 model)	() A-6013-045-B	COMPLETE PCB, BE-02
1pc (for 04 model)	() A-6013-053-B	COMPLETE PCB, BE-02
1pc (for 10/12 model)	() A-6013-076-A	COMPLETE PCB, BE-02
1pc (for 14 model)	() A-6013-075-A	COMPLETE PCB, BE-02
(These ass'ies include the following parts.)		
Q16&17, 20&21	X-3673-687-0	TRANSISTOR KIT
	This part is the kit of 2SD774-3 and 2SB734-3.	
	Replace the following two transistors at the same time.	
	Q16&17	Q20&21
	2SD774-3 should be used for Q16 and 20.	
	2SB734-3 should be used for Q17 and 21.	
Q3&4, 103&104, 203&204, 303&304, 403&404	X-3673-694-0	TRANSISTOR KIT
	This part is the kit of 2SC2690A-Q and 2SA1220A-Q or 2SC2690A-P and 2SA1220A-P.	
	Replace the following two transistors at the same time.	
	Q3&4	Q103&104 Q203&204 Q303&304 Q403&404
	2SC2690A-Q or 2SC2690A-P should be used for Q3, 103, 203, 303 and 403.	
	2SA1220A-Q or 2SA1220A-P should be used for Q4, 104, 204, 304 and 404.	
C60	1-102-074-00	CAP, CERAMIC 0.001 10% 50V
C50	1-107-044-00	CAP, MICA 3.3PF +/-0.5PF 500V
C46	1-107-077-51	CAP, MICA 47PF 5% 500V
C3 (for 04/14 model), 4 (for 04/14 model)	1-107-173-00	CAP, MICA 150PF 5% 500V
C3 (for 00/02/10/12 model), 1, 2	1-107-181-00	CAP, MICA 330PF 5% 500V

Ref.No. or Q'ty	Part No.	Description
(BE-02 BOARD,TTP)		
C19,20,21,22,109,110, 111,112,209,210,211, 212,309,310,311,312, 409,410,411,412	1-107-202-00	CAP,MICA 10PF 5% 500V
C101,201,301,401	1-108-563-00	CAP,MYLAR 0.0022 5% 50V
C31	1-108-567-00	CAP,MYLAR 0.0033 5% 50V
C12	1-108-573-00	CAP,MYLAR 0.0056 5% 50V
C14	1-108-575-00	CAP,MYLAR 0.0068 5% 50V
C23,24,113,114,213,214, 313,314,413,414	1-108-579-00	CAP,MYLAR 0.01 5% 50V
C102,202,302,402	1-108-583-00	CAP,MYLAR 0.015 5% 50V
C16,106,206,306,406	1-108-587-00	CAP,MYLAR 0.022 5% 50V
C17,107,207,307,407	1-109-542-00	CAP,MICA 220PF 5% 100V
C5	1-109-576-00	CAP,MICA 620PF 5% 500V
C25	1-109-577-00	CAP,MICA 680PF 5% 500V
C6	1-109-589-00	CAP,MICA 0.0022 5% 500V
C18,47,108,208,308,408	1-109-678-00	CAP,MICA 160PF 1% 500V
C32,33	1-109-689-00	CAP,MICA 470PF 5% 500V
C35,37	1-123-323-00	CAP,ELECT 470 16V
C26,28,39,52,54,115,117, 215,217,315,317,415, 417	1-123-332-00	CAP,ELECT 47 25V
C11,13,48,49,103,104, 203,204,303,304,403, 404	1-123-356-00	CAP,ELECT 10 50V
C15,34,105,205,305,405	1-123-380-00	CAP,ELECT 1 100V

Ref.No. or Q'ty	Part No.	Description
(BE-02 BOARD,TTP)		
C30	1-131-346-00	CAP,TANT 0.68 10% 35V
C45	1-131-347-00	CAP,TANT 1 10% 35V
C10	1-131-350-00	CAP,TANT 3.3 10% 35V
C7,8,9	1-131-353-00	CAP,TANT 10 10% 35V
CV4 (for 04/14 model), 1,2,3,5		
	1-141-155-00	CAP,TRIMMER 600PF
C27,29,36,38,40,41,42, 43,44,51,53,116,118, 216,218,316,318,416, 418	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
R420	1-214-096-00	RES,METAL 33 1% 1/6W
R64,69	1-215-373-00	RES,METAL 10 1% 1/6W
R55,56	1-215-397-00	RES,METAL 100 1% 1/6W
R13,15	1-215-407-00	RES,METAL 270 1% 1/6W
R1,2,34,80,103,203,303, 403	1-215-413-00	RES,METAL 470 1% 1/6W
R4,7,10,14,20,22,25,42, 45,46,106,109,206,209, 306,309,406,409	1-215-421-00	RES,METAL 1K 1% 1/6W
R21,105,205,305,405	1-215-423-00	RES,METAL 1.2K 1% 1/6W
R35,36	1-215-428-00	RES,METAL 2K 1% 1/6W
R5,8,11,23,24,107,108, 207,208,307,308,407, 408	1-215-429-00	RES,METAL 2.2K 1% 1/6W
R49 (for 04/14 model), 50 (for 04/14 model), 44	1-215-433-00	RES,METAL 3.3K 1% 1/6W
R3,6,9,12,32,33,43,60, 61,65,66,101,104,201, 204,301,304,401,404	1-215-437-00	RES,METAL 4.7K 1% 1/6W
R30	1-215-441-00	RES,METAL 6.8K 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(BE-02 BOARD,TTP)		
R48 (for 04/14 model), 29,31,37,38,52,113,213, 313,413	1-215-445-00	RES,METAL 10K 1% 1/6W
R112,212,312,412	1-215-447-00	RES,METAL 12K 1% 1/6W
R47 (for 04/14 model), 17,28,57,58,59	1-215-453-00	RES,METAL 22K 1% 1/6W
R16	1-215-455-00	RES,METAL 27K 1% 1/6W
R53,75	1-215-461-00	RES,METAL 47K 1% 1/6W
R54,76	1-215-463-00	RES,METAL 56K 1% 1/6W
R18	1-215-477-00	RES,METAL 220K 1% 1/6W
R102,202,302,402	1-215-483-00	RES,METAL 390K 1% 1/6W
RV6	1-228-455-00	RES,VAR,CERMET 500
RV8	1-228-461-00	RES,VAR,CERMET 50K
RV11 (for 04/14 model), 10	1-230-834-11	RES,VAR,METAL 10
RV1	1-230-837-11	RES,VAR,METAL 100
RV2,3,4,5	1-230-839-11	RES,VAR,METAL 500
RV9	1-230-844-11	RES,VAR,METAL 20K
R189 (for 04/14 model) (One of the following resistor is used.)		
	1-247-071-00	RES,CARBON 1 5% 1/4W
	1-247-075-00	RES,CARBON 2.2 5% 1/4W
	1-247-077-00	RES,CARBON 3.3 5% 1/4W
	1-247-079-00	RES,CARBON 4.7 5% 1/4W
	1-247-081-00	RES,CARBON 6.8 5% 1/4W
	1-247-083-00	RES,CARBON 10 5% 1/4W
R41,51	1-247-071-00	RES,CARBON 1 5% 1/4W
R189 (for 00/10/02/12 model)		
	1-247-075-00	RES,CARBON 2.2 5% 1/4W

Ref.No. or Q'ty	Part No.	Description
(BE-02 BOARD,TTP)		
R26,27,62,63,67,68,110, 111,210,211,310,311, 410,411	1-247-077-00	RES,CARBON 3.3 5% 1/4W
R39,40	1-247-105-00	RES,CARBON 82 5% 1/4W
LV1	1-407-261-00	INDUCTOR,VAR 100
LV2 (for 04/14 model)		
	1-407-262-00	INDUCTOR,VAR 150
LV3	1-407-284-00	INDUCTOR,VAR 1mH
LV4,5,6,7,8		
	1-407-297-00	INDUCTOR,VAR 3.5mH
L2	1-407-499-00	INDUCTOR,MICRO,3.9mH 5%
L1 (for 04/14 model)		
	1-408-424-00	INDUCTOR,MICRO,180 5%
T1	1-433-196-00	TRANSFORMER,BIAS
RY1 (for 04/14 model)		
	1-515-196-00	RELAY,12V 250-0HM
X1	1-527-478-00	CRYSTAL,14.31818MHz
CN384M,387M		
	() 1-560-301-00	RECEP,4P,MALE
CN386M	() 1-560-302-00	RECEP,5P,MALE
CN381M,383M		
	() 1-560-303-00	RECEP,6P,MALE
CN388M	() 1-560-304-00	RECEP,8P,MALE
CN382M	() 1-560-305-00	RECEP,10P,MALE
CN385M	() 1-560-725-00	RECEP,16P,MALE

Ref.No. or Q'ty	Part No.	Description
(BE-02 BOARD, TTP)		
TH101, 201, 301, 401	1-800-198-XX	THERMISTOR, S-1K
TP10 (for 04/14 model)		
1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16	() 3-657-703-01	TERMINAL, TP
TPE1, 2, 3, 4	() 3-673-805-11	TERMINAL, TP
D10 (for 04/14 model)		
6, 7, 8, 101, 102, 103, 201, 202, 203, 301, 302, 303, 401, 402, 403	8-719-815-55	DIODE 1S1555
D1, 2, 3, 4, 5, 9, 104, 105, 204, 205, 304, 305, 404, 405	8-719-911-06	DIODE 1SS106
Q8, 9, 10	8-729-169-02	TRANSISTOR 2SC2690A
Q12 (for 04/14 model)		
2, 6, 7, 14, 18, 102, 202, 302, 402	8-729-602-68	TRANSISTOR 2SA1026-8
Q13 (for 04/14 model)		
1, 5, 11, 15, 19, 101, 201, 301, 401	8-729-606-32	TRANSISTOR 2SC2603
IC7	8-759-045-84	IC MC14584BCP, CMOS
IC4, 5, 6	8-759-900-32	IC SN74LS32N, TTL
IC8	8-759-900-59	IC HI1-201, CMOS
IC1	8-759-903-93	IC SN74LS393N, TTL
IC2	8-759-942-65	IC SN74265N, TTL
IC3	8-759-974-06	IC SN7406N, TTL
IC9, 10, 11, 101, 201, 301, 401	8-759-990-82	IC TL082CP

Ref.No. or Q'ty	Part No.	Description
BE-03 BOARD (BVH-2000PS-00, 02, 10, 12/2180PS-00, 02)		
1pc (for 00/02/10/12 model)		
() A-6013-046-A COMPLETE PCB, BE-03		
(This assembly includes the following parts.)		
C101, 201, 301	1-108-559-00	CAP, MYLAR 0.0015 5% 50V
C102, 202, 302	1-108-575-00	CAP, MYLAR 0.0068 5% 50V
C11, 12, 13, 14, 15, 16	1-108-587-00	CAP, MYLAR 0.022 5% 50V
C20, 21, 22	1-108-603-00	CAP, MYLAR 0.1 5% 50V
C32, 33	1-109-575-00	CAP, MICA 560PF 5% 500V
C34	1-109-577-00	CAP, MICA 680PF 5% 500V
C10, 19	1-123-321-00	CAP, ELECT 220 16V
C5	1-123-356-00	CAP, ELECT 10 50V
C28, 29, 30	1-123-379-00	CAP, ELECT 0.47 100V
C103, 203, 303	1-123-380-00	CAP, ELECT 1 100V
C6, 7, 8	1-131-349-00	CAP, TANT 2.2 10% 35V
C24, 25, 26	1-131-350-00	CAP, TANT 3.3 10% 35V
R102, 202, 302	1-215-413-00	RES, METAL 470 1% 1/6W
R71, 72	1-215-421-00	RES, METAL 1K 1% 1/6W
R107, 207, 307	1-215-429-00	RES, METAL 2200 1% 1/6W
R104, 204, 304	1-215-433-00	RES, METAL 3300 1% 1/6W
R106, 206, 306	1-215-445-00	RES, METAL 10K 1% 1/6W

Ref. No. or Q'ty	Part No.	Description
(BE-03 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, TTP) R103, 203, 303		
	1-215-453-00	RES, METAL 22K 1% 1/6W
R65, 66	1-247-083-00	RES, CARBON 10 5% 1/4W
R67	1-247-103-00	RES, CARBON 68 5% 1/4W
R53, 54, 55, 57, 58, 59	1-247-807-00	RES, CARBON 100 5% 1/6W
R46, 48, 50	1-247-823-00	RES, CARBON 470 5% 1/6W
R61, 62, 63	1-247-830-00	RES, CARBON 910 5% 1/6W
R37, 39, 41	1-247-831-00	RES, CARBON 1K 5% 1/6W
R17, 18, 19, 20, 21, 22	1-247-835-00	RES, CARBON 1.5K 5% 1/6W
	1-247-839-00	RES, CARBON 2.2K 5% 1/6W
R29, 31	1-247-852-00	RES, CARBON 7.5K 5% 1/6W
R25, 26, 27, 33	1-247-855-00	RES, CARBON 10K 5% 1/6W
R45, 47, 49	1-247-856-00	RES, CARBON 11K 5% 1/6W
R13, 14, 15	1-247-861-00	RES, CARBON 18K 5% 1/6W
R101, 201, 301	1-247-893-00	RES, CARBON 390K 5% 1/6W
LV1, 2	1-407-285-00	INDUCTOR, VAR, 1.5mH
LV3	1-407-286-00	INDUCTOR, VAR, 2.2mH
T1, 2, 3	1-433-196-00	TRANSFORMER, BIAS
CN376M ()	1-560-300-00	RECEP, 3P, MALE
CN373M, 374M	() 1-560-302-00	RECEP, 5P, MALE

Ref. No. or Q'ty	Part No.	Description
(BE-03 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, TTP) CN371M, 372M		
	() 1-560-303-00	RECEP, 6P, MALE
CN375M ()	1-560-304-00	RECEP, 8P, MALE
TH1, 2, 3	1-800-200-00	THERMISTOR, S-3K
TP11, 12, 21, 22, 31, 32	() 3-640-328-00	TERMINAL, TP
TPE1	() 3-673-805-11	TERMINAL, TP
D101, 201, 301	8-719-815-55	DIODE 1S1555
Q5, 6, 7, 102, 202, 302	8-729-117-54	TRANSISTOR 2SA1175
Q9, 10, 11, 12, 13, 14	8-729-177-43	TRANSISTOR 2SD774
Q17, 18, 19	8-729-600-27	TRANSISTOR 2SC1364-7
Q101, 201, 301	8-729-606-32	TRANSISTOR 2SC2603
IC1, 2, 3	8-759-990-82	IC TL082CP
----- BE-03 BOARD (BVH-2000PS-04, 14/2180PS-04/TTP) ----- 1pc (for 04, 14 model) () A-6013-054-A COMPLETE PCB, BE-03 (This assembly includes the following parts.)		
C101, 201, 301, 401	1-108-559-00	CAP, MYLAR 0.0015 5% 50V
C102, 202, 302, 402	1-108-575-00	CAP, MYLAR 0.0068 5% 50V
C11, 12, 13, 14, 15, 16, 17, 18	1-108-587-00	CAP, MYLAR 0.022 5% 50V

Ref.No. or Q'ty	Part No.	Description
(BE-03 BOARD,2000PS-04,14/2180PS-04,TTP)		
C32,33,35	1-109-575-00	CAP,MICA 560PF 5% 500V
C34	1-109-577-00	CAP,MICA 680PF 5% 500V
C10,19	1-123-321-00	CAP,ELECT 220 16V
C5	1-123-356-00	CAP,ELECT 10 25V
C28,29,30,31	1-123-379-00	CAP,ELECT 0.47 50V
C103,203,303,403	1-123-380-00	CAP,ELECT 1 50V
C20,21,22,23	1-130-495-00	CAP,MYLAR 0.1 5% 50V
C6,7,8,9	1-131-349-00	CAP,TANT 2.2 10% 35V
C24,25,26,27	1-131-350-00	CAP,TANT 3.3 10% 35V
R102,202,302,402	1-215-413-00	RES,METAL 470 1% 1/6W
R71,72	1-215-421-00	RES,METAL 1K 1% 1/6W
R107,207,307,407	1-215-429-00	RES,METAL 2200 1% 1/6W
R104,204,304,404	1-215-433-00	RES,METAL 3300 1% 1/6W
R106,206,306,406	1-215-445-00	RES,METAL 10K 1% 1/6W
R103,203,303,403	1-215-453-00	RES,METAL 22K 1% 1/6W
C65,66,68	1-247-083-00	RES,CARBON 10 5% 1/4W
R67	1-247-103-00	RES,CARBON 68 5% 1/4W
R53,54,55,56,57,58,59, 60	1-247-807-00	RES,CARBON 100 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(BE-03 BOARD,2000PS-04,14/2180PS-04,TTP)		
R46,48,50,52	1-247-823-00	RES,CARBON 470 5% 1/6W
R61,62,63,64	1-247-830-00	RES,CARBON 910 5% 1/6W
R37,39,41,43	1-247-831-00	RES,CARBON 1K 5% 1/6W
R17,18,19,20,21,22,23, 24	1-247-835-00	RES,CARBON 1.5K 5% 1/6W
R30,32,34,36,38,40,42, 44	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R29,31,35	1-247-852-00	RES,CARBON 7.5K 5% 1/6W
R25,26,27,28,33	1-247-855-00	RES,CARBON 10K 5% 1/6W
R45,47,49,51	1-247-856-00	RES,CARBON 11K 5% 1/6W
R13,14,15,16	1-247-861-00	RES,CARBON 18K 5% 1/6W
R101,201,301,401	1-247-893-00	RES,CARBON 390K 5% 1/6W
LV1,2,4	1-407-285-00	INDUCTOR, VAR, 1.5mH
LV3	1-407-286-00	INDUCTOR, VAR, 2.2mH
T1,2,3,4	1-433-196-00	TRANSFORMER, BIAS
CN376M ()	1-560-300-00	RECEP, 3P, MALE
CN373M, 374M ()	1-560-302-00	RECEP, 5P, MALE
CN371M, 372M ()	1-560-303-00	RECEP, 6P, MALE

Ref.No. or Q'ty	Part No.	Description
(BE-03 BOARD, 2000PS-04, 14/2180PS-04, TTP)		
CN375M	() 1-560-304-00	RECEP, 8P, MALE
TH1, 2, 3, 4	1-800-200-00	THERMISTOR, S-3K
TP11, 12, 21, 22, 31, 32, 41, 42	3-640-328-00	TERMINAL, TP
TPE1	3-673-805-11	TERMINAL, TP
D101, 201, 301, 401	8-719-815-55	DIODE 1S1555
Q5, 6, 7, 8, 102, 202, 302, 402	8-729-117-54	TRANSISTOR 2SA1175
Q9, 10, 11, 12, 13, 14, 15, 16	8-729-177-43	TRANSISTOR 2SD774
Q17, 18, 19, 20	8-729-600-27	TRANSISTOR 2SC634-7
Q101, 201, 301, 401	8-729-606-32	TRANSISTOR 2SC2603
IC1, 2, 3	8-759-990-82	IC TL082CP

BE-04 BOARD (BVH-2000PS, 2180PS/TTP)

1pc	() 1-606-676-00	PC BOARD, BE-04, WITHOUT COMPONENT
RV4 (for 04/14 model), 1, 2, 3	1-224-945-00	RES, VAR, METAL 200
CN377M	() 1-560-302-00	RECEP, 5P, MALE
1pc (for 00/02/10/12 model)	3-644-002-00	CUSHION, HANDLE
2pcs	7-621-981-15	SCREW, PSW 2.6x6

Ref.No. or Q'ty	Part No.	Description
<u>DR-13 BOARD (BVH-2000PS-02, 04, 12, 14/2180PS-02, 04)</u>		
1pc (for 02/04/12/14 model)		
() A-6049-008-A COMPLETE PCB, DR-13		
(This assembly includes the following parts.)		
C2, 3, 4	1-131-522-00	CAP, TANT 10 20% 25V
C1	1-131-526-00	CAP, TANT 33 20% 10V
R3	1-247-884-00	RES, CARBON 160K 5% 1/6W
R4	1-247-783-00	RES, CARBON 10 5% 1/6W
R2	1-247-831-00	RES, CARBON 1K 5% 1/6W
R1	1-247-838-00	RES, CARBON 2K 5% 1/6W
L1, 2, 3	1-408-096-00	INDUCTOR, MICRO, 470 5%
34pcs	1-560-240-00	CONTACT
2pcs	7-621-259-42	SCREW +P 2.6x6
2pcs	7-682-147-13	SCREW +P 3x6
2pcs	7-684-023-01	NUT, M3
4pcs	7-688-003-13	WASHER, M3, MIDDLE
D2, 3	8-719-109-07	DIODE RD39E-B
D1, 4	8-719-900-95	DIODE V09G
D5, 6, 7, 8	8-719-911-19	DIODE 1SS119
IC2, 3	8-741-115-62	IC BX1156B
IC1	8-759-377-43	IC HA17741GS
Q1	8-769-194-00	TRANSISTOR 2SK43-4

DR-20 BOARD (BVH-2000PS-00, 10/2180PS-00)

1pc (for 00/10 model)	() A-6010-070-A	MOUNTED PCB, DR-20
(This assembly includes the following parts.)		
17pcs	1-560-240-00	CONTACT

Ref.No. or Q'ty	Part No.	Description
<u>SL-07 BOARD (BVH-2000PS-02,04,12,14/2180PS-02,04)</u>		

1pc (for 02/04/12/14 model)
 () A-6026-023-B MOUNTED PCB,SL-07
 (This assembly includes the following parts.)

7pcs 1-560-240-00 CONTACT

<u>SL-08 BOARD (BVH-2000PS-02,04,12,14/2180PS-02,04)</u>		
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1pc (for 02/04/12/14 model)
 A-6709-428-B MOUNTED PCB,SL-08

<u>SL-09 BOARD (BVH-2000PS-02,04,12,14/2180PS-02,04)</u>		
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1pc (for 02/04/12/14 model)
 A-6709-429-C MOUNTED PCB,SL-09
 (This assembly includes the following parts.)

1pc 1-508-937-00 RECEP,8P,MALE

Ref.No. or Q'ty	Part No.	Description
<u>RP-09 BOARD (BVH-2000PS,2180PS/TTP)</u>		

1pc () A-6011-063-A COMPLETE PCB,RP-09
 1pc () A-6011-097-A COMPLETE PCB,RP-09
 (For BVH-2000PS 10,12,14 model)
 (This assembly includes the following parts.)

C6,7,37,38

1-107-158-00 CAP,MICA 30PF 5% 500V

C8,39 1-107-162-00 CAP,MICA 43PF 5% 500V

C5,16,36 1-108-567-00 CAP,MYLAR 0.0033 5% 50V

C49 1-108-595-00 CAP,MYLAR 0.047 5% 50V

C10,41

(One of the following capacitors is used)

1-108-525-00 CAP,MICA 39PF 5% 100V

1-109-528-00 CAP,MICA 51PF 5% 100V

C1,4 1-123-321-00 CAP,ELECT 220 16V

C35,66 1-123-330-00 CAP,ELECT 22 25V

C11,14,17,31,32,42,44,
 47,62,63

1-123-333-00 CAP,ELECT 100 25V

C26,27,57,58

1-123-380-00 CAP,ELECT 1 100V

C9,13,15,18,19,20,21,23,
 24,25,28,29,30,34,40,
 43,46,48,50,51,52,54,
 55,56,59,60,61,65,70

1-161-051-00 CAP,CERAMIC 0.01 10% 50V

C2,3,12,33,45,64

1-161-057-00 CAP,CERAMIC
 0.033 10% 50V

C71 1-161-483-00 CAP,CERAMIC 0.1 10% 50V

R20,68 1-214-101-00 RES,METAL 51 1% 1/4W

R74,84 1-214-112-00 RES,METAL 150 1% 1/4W

RV1,3 1-224-934-00 RES,VAR,METAL 100

RV2,4 1-224-978-00 RES,VAR,METAL 50

R49,97 1-247-196-00 Δ RES,CARBON 15 5% 1/2W

R30,31,78,79

1-247-211-00 Δ RES,CARBON 62 5% 1/2W

Ref.No. or Q'ty	Part No.	Description
(RP-09 BOARD,TTP)		
R19,67	1-247-783-00	RES,CARBON 10 5% 1/6W
R5,6,53,54	1-247-787-00	RES,CARBON 15 5% 1/6W
R11,14,35,38,42,46,47, 61,64,82,85,90,93,95, 115,116	1-247-795-00	RES,CARBON 33 5% 1/6W
R18,50,51,57,98,99	1-247-800-00	RES,CARBON 51 5% 1/6W
R27,28,76,77	1-247-802-00	RES,CARBON 62 5% 1/6W
R22,32,34,37,69,80	1-247-807-00	RES,CARBON 100 5% 1/6W
R29,71	1-247-814-00	RES,CARBON 200 5% 1/6W
R12,13,60,62	1-247-816-00	RES,CARBON 240 5% 1/6W
R41,43,44,45,48,86,89, 91,92,94,96,101	1-247-818-00	RES,CARBON 300 5% 1/6W
R39,87	1-247-820-00	RES,CARBON 360 5% 1/6W
R8,21,26,33,36,55,81,83, 102,110,112	1-247-831-00	RES,CARBON 1K 5% 1/6W
R9,56	1-247-834-00	RES,CARBON 1.3K 5% 1/6W
R23,24,70,73,75	1-247-838-00	RES,CARBON 2K 5% 1/6W
R7,15,25,59,63,	1-247-842-00	RES,CARBON 3K 5% 1/6W
R17,52,65,72,100	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R10,58	1-247-854-00	RES,CARBON 9.1K 5% 1/6W
R1,2,3,4,16,66	1-247-855-00	RES,CARBON 10K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(RP-09 BOARD,TTP)		
L1,2,3,4,6,7,8,9	1-407-169-XX	INDUCTOR,MICRO,100 5%
L5,10	1-407-177-XX	INDUCTOR,MICRO,470 5%
LV1,2	1-408-660-00	INDUCTOR,VAR,1.8
T1,2,3,4	1-427-519-00	TRANSFORMER,OUTPUT
RY1,2	1-515-309-21	RELAY,12V 1K-OHM
FB1,2,3,4,5,6,7,8,9,10	1-535-178-00	FERRITE BEAD
CN263M,265M,267M,269M	() 1-560-300-00	RECEP,3P,MALE
CN262M	() 1-560-301-00	RECEP,4P,MALE
CN261M	() 1-560-302-00	RECEP,5P,MALE
CN264M,266M,268M,270M	1-561-365-00	RECEP,COAXIAL,MALE
TP2,4,5,6,8	() 3-673-772-41	TERMINAL,TP
8pcs	7-686-446-01	SCREW,PS 3x5
D1,2	8-719-815-55	DIODE 1S1555
Q1,2,4,8,9,10,16,20,21, 22	8-729-110-53	TRANSISTOR 2SA1005
Q5,6,11,12,17,18,23,24	8-729-125-20	TRANSISTOR 2SC1252
Q3,15	8-729-177-43	TRANSISTOR 2SD774
IC2,4	8-741-115-62	IC BX1156B
IC1,3	8-743-930-00	IC BX3930
Q7,13,14,19,25,26	8-765-300-00	TRANSISTOR 2SC2009

Ref. No. or Q'ty	Part No.	Description
DD-03 BOARD (BVH-2000PS-02, 04, 12, 14/2180PS-02, 04)		
1pc (for 02/04/12/14 model)		
() A-6023-035-B COMPLETE PCB, DD-03		
(This assembly includes the following parts.)		
C4, 13	1-102-106-00	CAP, CERAMIC 100PF 10% 50V
C9	1-109-676-00	CAP, MICA 130PF 5% 500V
C6, 8, 10, 11	1-123-007-00	CAP, ELECT 4.7 350V
C5, 7	1-123-309-00	CAP, ELECT 330 10V
C1, 2, 12, 14	1-123-330-00	CAP, ELECT 22 25V
C16	1-130-483-00	CAP, MYLAR 0.01 5% 50V
C3, 15	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
R5, 6	1-206-696-00	RES, METAL 22K 5% 2W
R10, 11	1-213-125-00	RES, METAL 33 5% 1W
RV1, 2	1-228-292-00	RES, VAR, CERMET 2K
CP1, 2	1-232-711-11	CIRCUIT BLOCK
CP3	1-232-712-11	CIRCUIT BLOCK
CP4	1-232-713-11	CIRCUIT BLOCK
CP5	1-232-714-11	CIRCUIT BLOCK
CP6	1-232-715-11	CIRCUIT BLOCK
CP7	1-232-716-11	CIRCUIT BLOCK
CP8	1-232-717-11	CIRCUIT BLOCK
CP9	1-232-718-11	CIRCUIT BLOCK
R4, 12	1-247-773-00	RES, CARBON 3.9 5% 1/6W
R7, 9	1-247-839-00	RES, CARBON 2.2K 5% 1/6W
R3, 15	1-247-851-00	RES, CARBON 6.8K 5% 1/6W
R1, 13	1-247-855-00	RES, CARBON 10K 5% 1/6W
R2, 14	1-247-859-00	RES, CARBON 15K 5% 1/6W
R16	1-247-871-00	RES, CARBON 47K 5% 1/6W
R8	1-247-879-00	RES, CARBON 100K 5% 1/6W
CN282M ()	1-560-302-00	RECAP, 5P, MALE
CN281M, 283M		
	() 1-560-304-00	RECEP, 8P, MALE
TP1, 2, 3		
	() 3-673-772-41	TERMINAL, TP

Ref. No. or Q'ty	Part No.	Description
(DD-03 BOARD, TTP)		
8pcs	7-686-528-01	SCREW, PSW 3x8
D1, 2, 5, 6	8-719-110-00	DIODE RD100E
D3, 4, 7, 8	8-719-900-95	DIODE V09G
D9	8-719-911-19	DIODE 1SS119
Q2	8-729-115-64	TRANSISTOR 2SA1156
Q3, 7	8-729-117-54	TRANSISTOR 2SA1175
Q14	8-729-175-22	TRANSISTOR 2SC2752
Q10, 15	8-729-178-54	TRANSISTOR 2SC2785
Q1, 6, 11, 13	8-729-204-94	TRANSISTOR 2SC3559
Q18, 19	8-719-900-89	TRANSISTOR DTC144ES
IC3	8-759-245-39	IC TC4539BP, CMOS
IC1, 2	8-759-377-23	IC HA17723G
Q4, 8, 9, 12	8-729-141-78	TRANSISTOR 2SC3632-K
Q5, 16, 17	8-729-118-43	TRANSISTOR 2SA1413-L

DA-07 BOARD (BVH-2000PS, 2180PS/TTP)		

1pc	() A-6015-065-A	COMPLETE PCB, DA-07
(This assembly includes the following parts.)		
C34	1-101-810-00	CAP, CERAMIC 100PF 5% 500V
C33, 36, 37, 38	1-102-106-00	CAP, CERAMIC 100PF 10% 50V
C1, 20	1-123-307-00	CAP, ELECT 100 10V
C13, 17	1-123-333-00	CAP, ELECT 100 25V
C29	1-123-356-00	CAP, ELECT 10 50V
C4	1-123-379-00	CAP, ELECT 0.47 100V
C12	1-123-388-00	CAP, ELECT 100 100V

Ref.No. or Q'ty	Part No.	Description
(DA-07 BOARD,TTP)		
C5,35	1-130-483-00	CAP,MYLAR 0.01 5% 50V
C25	1-130-491-00	CAP,MYLAR 0.047 5% 50V
C7	1-130-495-00	CAP,MYLAR 0.1 5% 50V
C11	1-136-169-00	CAP,MYLAR 0.22 5% 50V
C2,6,8,9,10,14,15,16,18, 19,21,22,23,24,26,27, 28,30,31,32	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
R29	1-215-375-31	RES,METAL 12 1% 1/6W
R80	1-215-422-00	RES,METAL 1.1K 1% 1/6W
R24	1-215-436-00	RES,METAL 4.3K 1% 1/6W
R54,55,56,57	1-215-445-00	RES,METAL 10K 1% 1/6W
R82	1-215-455-00	RES,METAL 27K 1% 1/6W
R10	1-215-456-00	RES,METAL 30K 1% 1/6W
R7	1-215-458-00	RES,METAL 36K 1% 1/6W
R8	1-215-459-00	RES,METAL 39K 1% 1/6W
R50	1-217-152-11	RES,METAL 0.33 10% 2W
RB1	1-231-533-00	RES BLOCK,10Kx4
R102	1-247-100-00	RES,CARBON 51 5% 1/4W
R13,15,19	1-247-123-00	RES,CARBON 470 5% 1/4W
R2	1-247-139-00	RES,CARBON 2.2K 5% 1/4W
R3,4,14,18,21	1-247-142-00	RES,CARBON 3K 5% 1/4W
R28	1-247-773-00	RES,CARBON 3.9 5% 1/6W
R73,77	1-247-811-00	RES,CARBON 150 5% 1/6W
R69,70,95,96,98,99	1-247-816-00	RES,CARBON 240 5% 1/6W
R12,17,22	1-247-823-00	RES,CARBON 470 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(DA-07 BOARD,TTP)		
R44,46,49	1-247-824-00	RES,CARBON 510 5% 1/6W
R39	1-247-825-00	RES,CARBON 560 5% 1/6W
R63,64,65	1-247-827-00	RES,CARBON 680 5% 1/6W
R33,34,43,45,47	1-247-829-00	RES,CARBON 820 5% 1/6W
R6,11,16,20,79	1-247-831-00	RES,CARBON 1K 5% 1/6W
R88	1-247-837-00	RES,CARBON 1.8K 5% 1/6W
R1,9	1-247-838-00	RES,CARBON 2K 5% 1/6W
R48,51,87	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R41	1-247-841-00	RES,CARBON 2.7K 5% 1/6W
R66,89	1-247-843-00	RES,CARBON 3.3K 5% 1/6W
R25,53	1-247-846-00	RES,CARBON 4.3K 5% 1/6W
R35,83	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R38	1-247-850-00	RES,CARBON 6.2K 5% 1/6W
R26,27,37,42,59,61,67, 68,74,81,84	1-247-855-00	RES,CARBON 10K 5% 1/6W
R85,86	1-247-857-00	RES,CARBON 12K 5% 1/6W
R32	1-247-859-00	RES,CARBON 15K 5% 1/6W
R72,75	1-247-861-00	RES,CARBON 18K 5% 1/6W
R52	1-247-862-00	RES,CARBON 20K 5% 1/6W
R100	1-247-864-00	RES,CARBON 24K 5% 1/6W
R101	1-247-865-00	RES,CARBON 27K 5% 1/6W
R40,62,92,93	1-247-869-00	RES,CARBON 39K 5% 1/6W
R23	1-247-872-00	RES,CARBON 51K 5% 1/6W
R31	1-247-874-00	RES,CARBON 62K 5% 1/6W
R90	1-247-879-00	RES,CARBON 100K 5% 1/6W
R58	1-247-881-00	RES,CARBON 120K 5% 1/6W
R78	1-247-886-00	RES,CARBON 200K 5% 1/6W
R30	1-247-887-00	RES,CARBON 220K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(DA-07 BOARD,TTP)		
R71,76,97	1-247-895-00	RES,CARBON 470K 5% 1/6W
R91	1-247-896-00	RES,CARBON 510K 5% 1/6W
L1,2,3	1-407-885-00	INDUCTOR,MICRO,0.1mH 5%
L4	1-408-405-00	INDUCTOR,MICRO,4.7 5%
CN115M ()	1-535-173-00	TERMINAL,INSERT
CN117M ()	1-560-178-00	RECEP,6P,MALE
CN112M ()	1-560-302-00	RECEP,5P,MALE
CN116M ()	1-560-723-00	RECEP,3P,MALE
CN114M ()	1-560-724-00	RECEP,10P,MALE
CN111M ()	1-560-726-00	RECEP,20P,MALE
TP4,5,6,7	() 3-673-805-01	TERMINAL,TP
TPE2,3 ()	3-673-805-11	TERMINAL,TP
4pcs	7-686-449-01	SCREW,PS 3x10
2pcs	7-686-528-01	SCREW,PSW 3x8
D17	8-719-182-07	DIODE RD8,2E
D1	8-719-200-02	DIODE 10E2
D8,9,10,12,13,14,15,16, 18,20	8-719-815-55	DIODE 1S1555
D2,3,4,5,6,7	8-719-911-55	DIODE U05G
D19	8-719-981-01	DIODE ERA81-004
Q16,18,20	8-729-195-23	TRANSISTOR 2SA952
Q6,8,10,11,12	8-729-201-32	TRANSISTOR 2SA1013
Q5,7,9,17,19,21	8-729-238-32	TRANSISTOR 2SC2383
Q1	8-729-318-63	TRANSISTOR 2SA1186
Q2,3,4,13,14,15	8-729-383-73	TRANSISTOR 2SC2837
Q22	8-729-663-47	TRANSISTOR 2SC1364

Ref.No. or Q'ty	Part No.	Description
(DA-07 BOARD,TTP)		
IC8,9,10	8-759-103-93	IC UPC393C
IC7	8-759-135-80	IC UPC358C
IC1,2,3,4	8-759-145-58	IC UPC4558C
IC6	8-759-220-74	IC TC40H074P,CMOS
IC5	8-759-755-17	IC,PROM,MB7051-A1U1

CA-09 BOARD (BVH-2000PS,2180PS/TTP)

1pc () A-6015-064-A COMPLETE PCB,CA-09
(This assembly includes the following parts.)

Q2,3,10,11,18 & 19
X-3673-686-0 TRANSISTOR KIT,2SC1890A
This part is the kit of six transistors.
Replace Q2,3,10,11,18 & 19 at the same
time.

C47,50,53	1-102-074-00	CAP,CERAMIC 0.001 10% 50V
C14	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C17,38	1-102-109-00	CAP,CERAMIC 180PF 10% 50V
C48,51,54	1-102-110-00	CAP,CERAMIC 220PF 10% 50V
C5,42	1-108-595-00	CAP,MYLAR 0.047 5% 50V
C18,40,45	1-108-603-00	CAP,MYLAR 0.1 5% 50V

Ref.No. or Q'ty	Part No.	Description
(CA-09 BOARD,TTP)		
C39	1-108-611-00	CAP,MYLAR 0.22 5% 50V
C8,10,30,55	1-123-307-00	CAP,ELECT 100 10V
C22,28	1-123-333-00	CAP,ELECT 100 25V
C1	1-123-356-00	CAP,ELECT 10 50V
C37	1-123-360-00	CAP,ELECT 100 50V
C3	1-123-379-00	CAP,ELECT 0.47 100V
C2,4,6,7,9,11,12,13,15, 16,19,20,21,23,24,25, 26,27,29,31,32,33,34, 35,36,41,43,44,46,49, 52,56	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
R22,23,24	1-214-278-00	RES,METAL 5.6K 0.25% 1/8W
R140,141	1-215-390-00	RES,METAL 51 1% 1/6W
R10	1-215-422-00	RES,METAL 1.1K 1% 1/6W
R17	1-215-432-00	RES,METAL 3K 1% 1/6W
R42,64	1-215-436-00	RES,METAL 4.3K 1% 1/6W
R39,62	1-215-440-00	RES,METAL 6.2K 1% 1/6W
R34,35,36,73,75,76,77	1-215-445-00	RES,METAL 10K 1% 1/6W
R33	1-215-452-00	RES,METAL 20K 1% 1/6W
R18,31	1-215-454-00	RES,METAL 24K 1% 1/6W
R9	1-215-455-00	RES,METAL 27K 1% 1/6W
R27	1-215-462-00	RES,METAL 51K 1% 1/6W
R70,71,72	1-215-243-00	RES,METAL 22K 0.1% 1/6W
R74	1-217-153-00	RES,METAL 0.47 10% 2W
R41,63	1-247-776-00	RES,CARBON 5.1 5% 1/6W
R91,109,127	1-247-783-00	RES,CARBON 10 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(CA-09 BOARD,TTP)		
R97,98,115,116,133,134	1-247-779-00	RES,CARBON 6.8 5% 1/6W
R90,108,126	1-247-804-00	RES,CARBON 75 5% 1/6W
R43,45	1-247-811-00	RES,CARBON 150 5% 1/6W
R93,111,129	1-247-814-00	RES,CARBON 200 5% 1/6W
R96,114,132	1-247-815-00	RES,CARBON 220 5% 1/6W
R50,51,55,56,59,79	1-247-816-00	RES,CARBON 240 5% 1/6W
R38,61	1-247-824-00	RES,CARBON 510 5% 1/6W
R15	1-247-825-00	RES,CARBON 560 5% 1/6W
R89,107,125	1-247-828-00	RES,CARBON 750 5% 1/6W
R67,69	1-247-829-00	RES,CARBON 820 5% 1/6W
R8,48,49,84,85,88,102, 103,106,120,121,124,	1-247-831-00	RES,CARBON 1K 5% 1/6W
R16	1-247-833-00	RES,CARBON 1.2K 5% 1/6W
R92,110,128	1-247-838-00	RES,CARBON 2K 5% 1/6W
R13,138	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R6	1-247-840-00	RES,CARBON 2.4K 5% 1/6W
R94,112,130	1-247-842-00	RES,CARBON 3K 5% 1/6W
R4,20,29	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R26	1-247-850-00	RES,CARBON 6.2K 5% 1/6W
R137	1-247-851-00	RES,CARBON 6.8K 5% 1/6W
R2,3,11,21,32,44,53,58, 65,78,80,81,82,86,99, 100,104,117,118,122, 135,139	1-247-855-00	RES,CARBON 10K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(CA-09 BOARD,TTP)		
R5	1-247-856-00	RES,CARBON 11K 5% 1/6W
R1,7	1-247-857-00	RES,CARBON 12K 5% 1/6W
R136	1-247-859-00	RES,CARBON 15K 5% 1/6W
R46	1-247-861-00	RES,CARBON 18K 5% 1/6W
R28	1-247-862-00	RES,CARBON 20K 5% 1/6W
R25,83,87,101,105,119, 123	1-247-863-00	RES,CARBON 22K 5% 1/6W
R14	1-247-864-00	RES,CARBON 24K 5% 1/6W
R66	1-247-865-00	RES,CARBON 27K 5% 1/6W
R19	1-247-866-00	RES,CARBON 30K 5% 1/6W
R68,95,113,131	1-247-869-00	RES,CARBON 39K 5% 1/6W
R47	1-247-879-00	RES,CARBON 100K 5% 1/6W
R12	1-247-886-00	RES,CARBON 200K 5% 1/6W
R30	1-247-889-00	RES,CARBON 270K 5% 1/6W
R52,57,60	1-247-895-00	RES,CARBON 470K 5% 1/6W
R37,40,54	1-247-903-00	RES,CARBON 1M 5% 1/6W
L1,2,3	1-407-885-00	INDUCTOR,MICRO,0.1mH 5%
CN105M ()	1-535-173-00	TERMINAL,INSERT
CN103M ()	1-560-178-00	RECEP,6P,MALE
CN104M ()	1-560-723-00	RECEP,3P,MALE
CN102M ()	1-560-724-00	RECEP,10P,MALE
CN101M ()	1-560-726-00	RECEP,20P,MALE
TP1,2,3,4,5,6,7 ()	3-673-805-01	TERMINAL,TP
TPE1,2 ()	3-673-805-11	TERMINAL,TP
6pcs	7-686-449-01	SCREW,PS 3x10
2pcs	7-686-528-01	SCREW,PSW 3x8
D4	8-719-182-07	DIODE RD8.2E
D21,22,23,24,25,26	8-719-200-02	DIODE 10E2

Ref.No. or Q'ty	Part No.	Description
(CA-09 BOARD,TTP)		
D2,3,5,6,7,8,9,10,11,12, 13,14,15,16,17,18,19, 20	8-719-815-55	DIODE 1S1555
D1	8-719-981-01	DIODE ERA81-004
Q7,15,23	8-729-106-92	TRANSISTOR 2SC2690A
Q5,13,21	8-729-177-43	TRANSISTOR 2SD774
Q6,14,22	8-729-122-02	TRANSISTOR 2SA1220A
Q9,17,25	8-729-318-63	TRANSISTOR 2SA1186
Q1	8-729-374-02	TRANSISTOR 2SB740
Q8,16,24	8-729-383-73	TRANSISTOR 2SC2837
Q4,12,20	8-729-663-47	TRANSISTOR 2SC1364
IC1,11,12	8-759-103-93	IC UPC393C
IC10	8-759-135-80	IC UPC358C
IC2,3,4,6,15,16	8-759-145-58	IC UPC4558C
IC14	8-759-220-74	IC TC40H074P,CMOS
IC13	8-759-240-49	IC TC4049BP,CMOS
IC5,9	8-759-240-52	IC TC4052BP,CMOS
IC8	8-759-240-81	IC TC4081BP,CMOS
IC7	8-759-745-60	IC NJM4560D

Ref.No. or Q'ty	Part No.	Description
<u>RA-05 BOARD (BVH-2000PS,2180PS/TTP)</u>		
1pc (for BVH-2000PS)		
	() A-6023-031-B	COMPLETE PCB,RA-05
1pc (for BVH-2180PS)		
	() A-6023-034-A	COMPLETE PCB,RA-05
(These ass'ies includes the following parts.)		
C50,52	1-102-074-00	CAP,CERAMIC 0.001 10% 50V
C30,75,86,87,88,89,90, 91	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C4,5,6,8,51,55,56,57	1-108-555-00	CAP,MYLAR 0.001 5% 50V
C16,64	1-108-571-00	CAP,MYLAR 0.0047 5% 50V
C22,58	1-108-583-00	CAP,MYLAR 0.015 5% 50V
C18,60	1-108-595-00	CAP,MYLAR 0.047 5% 50V
C20,61	1-108-603-00	CAP,MYLAR 0.1 5% 50V
C40	1-123-307-00	CAP,ELECT 100 10V
C92,93	1-123-308-00	CAP,ELECT 220 10V
C35,84	1-123-332-00	CAP,ELECT 47 25V
C7,42,46,54	1-123-333-00	CAP,ELECT 100 50V
C12,34,68,77,78	1-123-356-00	CAP,ELECT 10 50V
C13,69	1-123-369-00	CAP,ELECT 4.7 63V
C11,67	1-123-380-00	CAP,ELECT 1 100V
C1,2	1-123-388-00	CAP,ELECT 100 100V
C94	1-131-373-00	CAP,TANT 22 10% 16V
C3,9,14,15,17,19,21,23, 25,27,28,29,31,33,36, 37,38,39,41,43,44,45, 47,48,49,62,63,65,66, 70,71,72,73,76,80,81, 82,83	1-161-055-00	CAP,CERAMIC 0.022 10% 50V

Ref.No. or Q'ty	Part No.	Description
(RA-05 BOARD,TTP)		
R34,35,69,70,190,191, 224,225	1-215-377-00	RES,METAL 15 1% 1/6W
R53,54,56,231,232,233	1-215-385-00	RES,METAL 33 1% 1/6W
R139,145,299,304	1-215-405-00	RES,METAL 220 1% 1/6W
R143,149,298,308	1-215-414-00	RES,METAL 510 1% 1/6W
R290	1-215-422-00	RES,METAL 1.1K 1% 1/6W
R36,37,39,40,41,42,196, 197,198,199,201,202	1-215-428-00	RES,METAL 2K 1% 1/6W
R52,236	1-215-433-00	RES,METAL 3.3K 1% 1/6W
R126,254	1-215-435-00	RES,METAL 3.9K 1% 1/6W
R18,19,20,183,184,185	1-215-437-00	RES,METAL 4.7K 1% 1/6W
R140,141,144,146,300, 301,303,305	1-215-440-00	RES,METAL 6.2K 1% 1/6W
R13,14,15,180,181,182	1-215-443-00	RES,METAL 8.2K 1% 1/6W
R58,74,105,109,114,120, 125,152,155,230,245, 258,260,263,266,267, 296,297	1-215-445-00	RES,METAL 10K 1% 1/6W
R77,115,228,256	1-215-447-00	RES,METAL 12K 1% 1/6W
R76,229	1-215-449-00	RES,METAL 15K 1% 1/6W
R117,259	1-215-451-00	RES,METAL 18K 1% 1/6W
R16,17,22,163,164,166	1-215-453-00	RES,METAL 22K 1% 1/6W
R293	1-215-455-00	RES,METAL 27K 1% 1/6W
R116,255	1-215-459-00	RES,METAL 39K 1% 1/6W

Ref.No. or Q'ty	Part No.	Description
(RA-05 BOARD,TTP) (for BVH-2000PS)		
R79,215	1-215-464-00	RES,METAL 62K 1% 1/6W
R21,113,142,147,165,302, 306,311	1-215-469-00	RES,METAL 100K 1% 1/6W
R23,167	1-217-152-11	RES,METAL 0.33 10% 2W
RV1,6	1-230-842-11	RES,VAR,METAL 5K
RV2,5	1-230-845-11	RES,VAR,METAL 50K
R24,25,26,168,178,179	1-247-121-00	RES,CARBON 390 5% 1/4W
R320,334	1-247-131-00	RES,CARBON 1K 5% 1/4W
R1,2,3,10,11,12,157,158, 159,172,173,174	1-247-139-00	RES,CARBON 2.2K 5% 1/4W
R55	1-247-425-11	RES,CARBON 47K 5% 1/6W
R4,5,6,160,161,162	1-247-771-00	RES,CARBON 3.3 5% 1/6W
R148,150,307,309	1-247-800-00	RES,CARBON 51 5% 1/6W
R135,138	1-247-805-00	RES,CARBON 82 5% 1/6W
R66,93,95,96,98,100,275, 276,277,280,281,282	1-247-816-00	RES,CARBON 240 5% 1/6W
R27,28,29,30,31,32,175, 176,177,188,189,192	1-247-819-00	RES,CARBON 330 5% 1/6W
R61,242	1-247-824-00	RES,CARBON 510 5% 1/6W
R71,133,223,252,283,289	1-247-831-00	RES,CARBON 1K 5% 1/6W
R50,186	1-247-834-00	RES,CARBON 1.3K 5% 1/6W
R119,262	1-247-837-00	RES,CARBON 1.8K 5% 1/6W
R51,112,235,270	1-247-838-00	RES,CARBON 2K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(RA-05 BOARD,TTP)		
R7,8,9,68,121,169,170, 171,226,234,264,325, 330	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R33,187	1-247-843-00	RES,CARBON 3.3K 5% 1/6W
R123,285	1-247-844-00	RES,CARBON 3.6K 5% 1/6W
R72,219,327	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R55	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R90,108,154,214,294,313, 314	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R118,261	1-247-849-00	RES,CARBON 5.6K 5% 1/6W
R80,128,216,247	1-247-850-00	RES,CARBON 6.2K 5% 1/6W
R64,246	1-247-851-00	RES,CARBON 6.8K 5% 1/6W
R130,248,329,337,338	1-247-853-00	RES,CARBON 8.2K 5% 1/6W
R38,43,44,46,47,48,49, 92,101,102,103,104,106, 110,122,136,151,153, 156,194,200,203,204, 221,222,253,265,268, 272,273,291,292,295, 316,317	1-247-855-00	RES,CARBON 10K 5% 1/6W
R75,89,211,220,284,287	1-247-857-00	RES,CARBON 12K 5% 1/6W
R86,206	1-247-858-00	RES,CARBON 13K 5% 1/6W
R57,238,321,335	1-247-859-00	RES,CARBON 15K 5% 1/6W
R134,137	1-247-861-00	RES,CARBON 18K 5% 1/6W
R315,318	1-247-862-00	RES,CARBON 20K 5% 1/6W
R82,85,124,207,217,257	1-247-863-00	RES,CARBON 22K 5% 1/6W
R78,213	1-247-864-00	RES,CARBON 24K 5% 1/6W
R127,212	1-247-870-00	RES,CARBON 43K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(RA-05 BOARD,TTP)		
R45,83,111,195,269,319, 324,326,331,339	1-247-872-00	RES,CARBON 51K 5% 1/6W
R65,243	1-247-874-00	RES,CARBON 62K 5% 1/6W
R107,271	1-247-875-00	RES,CARBON 68K 5% 1/6W
R60,239	1-247-876-00	RES,CARBON 75K 5% 1/6W
R131,250	1-247-878-00	RES,CARBON 91K 5% 1/6W
R63,193,240,310,322,323, 332,333	1-247-879-00	RES,CARBON 100K 5% 1/6W
R59,237	1-247-882-00	RES,CARBON 130K 5% 1/6W
R62,241	1-247-883-00	RES,CARBON 150K 5% 1/6W
R210,312	1-247-885-00	RES,CARBON 180K 5% 1/6W
R67,87,88,91,205,208, 209,244,286,288	1-247-886-00	RES,CARBON 200K 5% 1/6W
R73,227	1-247-893-00	RES,CARBON 390K 5% 1/6W
R94,97,99,132,251,274, 278,279,328,336	1-247-895-00	RES,CARBON 470K 5% 1/6W
(for BVH-2180PS)		
R79,215	1-247-859-00	RES,CARBON 470K 5% 1/6W
R129,249	1-247-902-00	RES,CARBON 910K 5% 1/6W
R81,218	1-247-903-00	RES,CARBON 1M 5% 1/6W
L2,3	1-407-885-00	INDUCTOR,MICRO,0.1mH 5%
L1	1-409-339-00	COIL,SN
CN201M ()	1-535-173-00	TERMINAL,INSERT
CN207M,208M,209M ()	1-560-178-00	RECEP,6P,MALE
CN202M,204M ()	1-560-303-00	RECEP,6P,MALE
CN205M,206M ()	1-560-724-00	RECEP,10P,MALE
CN203M ()	1-560-729-00	RECEP,34P,MALE
S1	1-570-258-12	SWITCH,THERMAL REED 90°C

Ref.No. or Q'ty	Part No.	Description
(RA-05 BOARD,TTP)		
1pc	() 1-609-900-11	PC BOARD,SW-14 WITHOUT COMPONENT
3pcs	3-534-816-00	SUPPORT
TP1,2,3,4,5,7,8,9,10,13, 14,15,16,17,19,20,21, 22,25,26	() 3-673-772-21	TERMINAL,TP
TP23,24	() 3-673-805-01	TERMINAL,TP
TPE1,2	() 3-673-805-11	TERMINAL,TP
2pcs	4-866-397-00	CUSHION,LED
4pcs	7-621-981-25	SCREW,PSW 2.6x8
6pcs	7-623-208-22	SPRING WASHER,M2
6pcs	7-682-657-01	SCREW,+PS 3x40
6pcs	7-684-023-04	NUT,M3
4pcs	7-686-447-01	SCREW,PS 3x6
1pc	7-686-448-01	SCREW,PS 3x8
4pcs	7-686-527-01	SCREW,PSW 3x6
D25,26,54,55	8-719-151-07	DIODE RD5.1E-B
D13,14,15,41,42,43	8-719-175-07	DIODE RD7.5E
D7,8,9,38,39,40	8-719-200-02	DIODE 10E2
D10,11,12,16,17,18,21, 22,23,24,27,34,35,36, 37,44,45,46,49,50,51, 52,53,56,58,59,60,61, 62,63	8-719-815-55	DIODE 1S1555
D20,47	8-719-911-06	DIODE 1SS106
D1,2,3,4,5,6,28,29,30, 31,32,33	8-719-911-55	DIODE U05G
D57	8-719-981-01	DIODE ERA81-004
Q47,54	8-729-115-64	TRANSISTOR 2SA1156
Q22,45	8-729-117-54	TRANSISTOR 2SA1175
Q19,44	8-729-177-43	TRANSISTOR 2SD774

Ref.No. or Q'ty	Part No.	Description
(RA-05 BOARD,TTP)		
Q13,14,15,36,37,38	8-729-195-23	TRANSISTOR 2SA952
Q4,5,6,27,28,29	8-729-201-32	TRANSISTOR 2SA1013
Q7,8,9,30,31,32	8-729-238-32	TRANSISTOR 2SC2383
Q48,53	8-729-255-12	TRANSISTOR 2SC2551
Q10,11,12,33,34,35	8-729-377-32	TRANSISTOR 2SC2773-0
Q1,2,3,24,25,26	8-729-383-73	TRANSISTOR 2SC2837
Q16,17,18,20,21,23,39, 40,41,42,43,46,49,50, 51,52,55,56	8-729-606-32	TRANSISTOR 2SC2603
IC5	8-759-045-38	IC MC14538BCP,CMOS
IC9,10,13,23,26,27,28	8-759-103-93	IC UPC393C
IC14	8-759-135-80	IC UPC358C
IC6,7,11,12,15,16,21,22, 24,25,29,30	8-759-145-58	IC UPC4558C
IC4	8-759-240-13	IC TC4013BP,CMOS
IC2,18,19	8-759-240-30	IC TC4030BP,CMOS
IC1,17	8-759-755-17	IC,PROM,MB7051-A1U1
IC3	8-759-900-32	IC SN74LS32N,TTL
IC8,20	8-759-990-82	IC TL082CP

Ref.No. or Q'ty	Part No.	Description
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TT-01 BOARD (BVH-2000PS,2180PS/TTP)

1pc (for BVH-2000PS)		
() A-6025-084-A COMPLETE PCB,TT-01		
1pc (for BVH-2180PS)		
() A-6025-091-A COMPLETE PCB,TT-01		
(These ass'ies includes the following parts.)		
C20	1-102-106-00	CAP,CERAMIC 100PF 10% 50V
C18	1-108-587-00	CAP,MYLAR 0.022 5% 50V
C17	1-108-595-00	CAP,MYLAR 0.047 5% 50V
C4	1-123-307-00	CAP,ELECT 100 10V
C21,22	1-123-330-00	CAP,ELECT 22 25V
C16	1-123-332-00	CAP,ELECT 47 25V
C5,8,11,12	1-123-333-00	CAP,ELECT 100 25V
C9	1-123-356-00	CAP,ELECT 10 50V
C1,2,3,6,7,10,13,14,15, 19,23	1-161-055-00	CAP,CERAMIC 0.022 10% 50V
R15	1-212-370-00	RES,METAL 6.8 5% 1W
R40,41	1-214-116-00	RES,METAL 220 1% 1/4W
R26,37	1-214-125-00	RES,METAL 510 1% 1/4W
R12,13,35	1-214-132-00	RES,METAL 1K 1% 1/4W
R31	1-214-141-00	RES,METAL 2.4K 1% 1/4W
R27,28,38,39	1-214-151-00	RES,METAL 6.2K 1% 1/4W
(for BVH-2180PS)		
R34,36	1-214-159-00	RES,METAL 13K 1% 1/4W
(for BVH-2000PS)		
R34,36	1-214-170-00	RES,METAL 39K 1% 1/4W

Ref.No.
or Q'ty Part No. Description

(TT-01 BOARD,TTP)

R30,32 1-214-170-00 RES,METAL 39K 1% 1/4W
R23,25 1-214-180-00 RES,METAL 100K 1% 1/4W
R29,33 1-214-350-00 RES,METAL 5.6K 0.1% 1/8W
RV2 1-228-305-00 RES,VAR,CERMET 1K
RV1 1-228-307-00 RES,VAR,CERMET 5K

RB1 1-231-410-00 RES BLOCK,10Kx8

R18,19,20,21,22,24

1-247-800-00 RES,CARBON 51 5% 1/6W

R7 1-247-817-00 RES,CARBON 270 5% 1/6W
R46 1-247-818-00 RES,CARBON 300 5% 1/6W
R59 1-247-825-00 RES,CARBON 560 5% 1/6W

R53 1-247-827-00 RES,CARBON 680 5% 1/6W
R55 1-247-828-00 RES,CARBON 750 5% 1/6W
R11,49,56 1-247-831-00 RES,CARBON 1K 5% 1/6W
R60,61 1-247-833-00 RES,CARBON 1.2K 5% 1/6W
R16,17 1-247-834-00 RES,CARBON 1.3K 5% 1/6W

R2,6,10 1-247-839-00 RES,CARBON 2.2K 5% 1/6W
R5,54 1-247-842-00 RES,CARBON 3K 5% 1/6W
R14 1-247-847-00 RES,CARBON 4.7K 5% 1/6W
R4,9 1-247-853-00 RES,CARBON 8.2K 5% 1/6W

R1,3,8,48,50,57,58

1-247-855-00 RES,CARBON 10K 5% 1/6W

R44,47 1-247-859-00 RES,CARBON 15K 5% 1/6W
R51,52 1-247-863-00 RES,CARBON 22K 5% 1/6W
R42 1-247-883-00 RES,CARBON 150K 5% 1/6W
R45 1-247-896-00 RES,CARBON 510K 5% 1/6W
R43 1-247-901-00 RES,CARBON 820K 5% 1/6W

L2 1-408-421-00 INDUCTOR,MICRO,100 5%

L1,3 1-409-339-00 COIL,SN

CN007M () 1-560-299-00 RECEP,2P,MALE

CN001M,008M,009M

() 1-560-300-00 RECEP,3P,MALE

CN005M,006M

() 1-560-301-00 RECEP,4P,MALE

CN003M,004M

() 1-560-302-00 RECEP,5P,MALE

Ref.No.
or Q'ty Part No. Description

(TT-01 BOARD,TTP)

CN002M () 1-560-305-00 RECEP,10P,MALE
CN010M () 1-560-729-00 RECEP,34P,MALE
TP1 () 3-673-805-01 TERMINAL,TP
TPE2 () 3-673-805-11 TERMINAL,TP
4pcs 4-866-397-00 CUSHION,LED

D4,5 8-719-100-28 DIODE RD4.7E-B3

D6,7 8-719-151-07 DIODE RD5.1E-B

D2,3,9,10,11,12,13,14,15,16

8-719-200-02 DIODE 10E2

D1,8 8-719-815-55 DIODE 1S1555

Q1 8-729-117-54 TRANSISTOR 2SA1175

Q10,17,18

8-729-177-43 TRANSISTOR 2SD774

Q6 8-729-373-92 TRANSISTOR 2SB739

Q5 8-729-378-84 TRANSISTOR 2SD788

Q15,16 8-729-398-63 TRANSISTOR 2SC1986-Y

Q2,3,4,7,8,9,11,12,13,14

8-729-606-32 TRANSISTOR 2SC2603

IC6 8-759-045-84 IC MC14584BCP,CMOS

IC1,4 8-759-145-58 IC UPC4558C

IC5 8-759-240-30 IC TC4030BP,CMOS

IC2,3 8-759-700-10 IC NJM4558DMD

IC7 8-759-900-05 IC SN74LS05N,TTL

Ref. No.
or Q'ty Part No. Description

RS-17 BOARD (BVH-2180PS/TTP)

1pc () A-6025-093-A COMPLETE PCB, RS-17
(This assembly includes the following parts.)

C6	1-108-579-00	CAP, MYLAR 0.01 5% 50V
C1	1-124-142-00	CAP, ELECT 470 10V
C2, 3, 4, 5, 7, 8, 9, 10, 11	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
R10, 11	1-247-800-00	RES, CARBON 51 5% 1/6W
R8, 12	1-247-819-00	RES, CARBON 330 5% 1/6W
R6, 7	1-247-821-00	RES, CARBON 390 5% 1/6W
R1, 9	1-247-831-00	RES, CARBON 1.0K 5% 1/6W
R2, 3, 4	1-247-855-00	RES, CARBON 10K 5% 1/6W
R5	1-247-887-00	RES, CARBON 220K 5% 1/6W
L1	1-409-339-00	COIL, SN
CN042M	() 1-560-302-00	RECEP, 5P, MALE
CN041M	() 1-560-306-00	RECEP, 12P, MALE
D1, 2	8-719-930-33	LED, GL-3PR3, RED
IC4	8-759-001-00	IC MC74HC132N, CMOS
IC2, 3	8-759-202-83	IC TC74HC107P, CMOS
IC5	8-759-207-73	IC TC4030BPHB
IC6	8-759-240-22	IC TC4022BP, CMOS
IC1, 7	8-759-954-54	IC SN75454BP, TTL

Ref. No.
or Q'ty Part No. Description

TM-16 BOARD (BVH-2000PS, 2180PS/TTP)

1pc () 1-609-959-12 PC BOARD, TM-16,
WITHOUT COMPONENT

C1	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
R1	1-215-423-00	RES, METAL 1.2K 1% 1/6W
R4	1-215-427-00	RES, METAL 1.8K 1% 1/6W
R3	1-215-464-00	RES, METAL 62K 1% 1/6W
R2	1-215-467-00	RES, METAL 82K 1% 1/6W
R5	1-215-487-00	RES, METAL 560K 1% 1/6W
4pcs	1-517-072-00	HOLDER, LAMP
TM2, 3	1-548-119-00	HOURS METER
S1	1-553-441-21	SWITCH, TOGGLE
CN022M	() 1-560-310-00	RECEP, 4P, MALE
TP1, 2	() 3-673-805-01	TERMINAL, TP
TPE	() 3-673-805-11	TERMINAL, TP
2pcs	7-621-981-15	SCREW, PSW 2.6x6

RS-18 BOARD (BVH-2180PS/TTP)

1pc	() 1-613-389-11	PC BOARD, RS-18 WITHOUT COMPONENT
CN041F	() 1-561-056-00	PLUG, HOUSING, 12P
	() 1-560-298-00	CONTACT, FEMALE
1pc	() 3-701-822-00	HOLDER, WIRE
4pcs	7-686-447-01	SCREW, PS3x6
1pc	7-686-527-01	SCREW, PSW3x6
D1, 2	8-719-919-39	DIODE GP-2L01F

HM-05, MOTOR, TD-05, TH-03

Ref.No.
or Q'ty Part No. Description

HM-05 BOARD (BVH-2000PS,2180PS/TTP)

1pc	() 1-606-699-00	PC BOARD, HM-05, WITHOUT COMPONENT
R2	1-214-165-00	RES, METAL 24K 1% 1/4W
R1	1-214-170-00	RES, METAL 39K 1% 1/4W
R3	1-214-788-00	RES, METAL 300K 1% 1/4W
2pcs	1-517-072-00	HOLDER, LAMP
TM1	1-548-119-00	HOURS METER
CN021M	() 1-560-310-00	RECEP, 4P, MALE
TP1	() 3-673-805-01	TERMINAL, TP
TPE	() 3-673-805-11	TERMINAL, TP
2pcs	7-621-981-15	SCREW, PSW 2.6x6

MOTOR BOARD (BVH-2000PS,2180PS/TTP)

1pc	() 1-602-615-11	PC BOARD, MOTOR, WITHOUT COMPONENT
C301,302	1-108-577-00	CAP, MYLAR 0.0082 5% 50V
R305,306,312,313	1-214-108-00	RES, METAL 100 1% 1/4W
R301	1-214-116-00	RES, METAL 220 1% 1/4W
R316	1-214-124-00	RES, METAL 470 1% 1/4W
R302,303,304,309,310, 311	1-214-132-00	RES, METAL 1K 1% 1/4W
R307,314	1-214-174-00	RES, METAL 56K 1% 1/4W
R308,315	1-214-180-00	RES, METAL 100K 1% 1/4W
RT301	1-224-490-00	RES, VAR, METAL 4.7K
RT302	1-224-660-00	RES, VAR, METAL 1K
TP-01,02,G	() 1-536-354-00	TERMINAL, TP

Ref.No.
or Q'ty Part No. Description

(MOTOR BOARD, TTP)

CN024M	() 1-560-301-00	RECEP, 4P, MALE
H301,302	8-719-800-17	DIODE THS102A
D301	8-719-110-03	DIODE RD7.5ESB2
Q301,303	8-729-141-42	TRANSISTOR 2SD414-R
Q302,304	8-729-154-82	TRANSISTOR 2SB548-R
IC301	8-759-700-58	IC NJM4558DFA

TD-05 BOARD (BVH-2000PS,2180PS/TTP)

1pc	() 1-606-702-00	PC BOARD, TD-05, WITHOUT COMPONENT
CN006F	() 1-509-985-00	PLUG, HOUSING, 4P
	() 1-560-298-00	CONTACT, FEMALE
1pc	7-621-972-25	SCREW, PS 2.6x6
1pc	7-621-972-35	SCREW, PS 2.6x8
PH1	8-719-411-02	PHOTO INTERRUPTER, ON1102S.S0

TH-03 BOARD (BVH-2000PS,2180PS/TTP)

1pc	() 1-606-701-00	PC BOARD, TH-03, WITHOUT COMPONENT
S1,2	1-553-117-41	SWITCH, REED
CN023M	() 1-560-311-00	RECEP, 5P, MALE

Ref.No. or Q'ty	Part No.	Description
<u>TR-07 BOARD (BVH-2000PS,2180PS/TTP)</u>		
1pc	() 1-606-698-00	PC BOARD,TR-07, WITHOUT COMPONENT
CN005F	() 1-509-985-00 () 1-560-298-00	PLUG,HOUSING,4P CONTACT,FEMALE
2pcs	7-687-603-14	SCREW,BTP 2.6x6
DME1	8-745-211-00 () 3-673-694-00	DME DM211 HOLDER,DME

<u>HD-06 BOARD (BVH-2000PS,2180PS/TTP)</u>		
1pc	() 1-606-679-00	PC BOARD,HD-06, WITHOUT COMPONENT

<u>CEH-2 BOARD (BVH-2000PS,2180PS/TTP)</u>		
1pc	() 1-588-946-00	PC BOARD,CEH-2, WITHOUT COMPONENT

Ref.No. or Q'ty	Part No.	Description
<u>HD-07 BOARD (BVH-2000PS-00,02,10,12/2180PS-00,02/TTP)</u>		
2pcs (for 02/12 model)		
1pc (for 00/10 model)	() 1-606-680-00	PC BOARD,HD-07, WITHOUT COMPONENT

<u>HD-08 BOARD (BVH-2000PS-04/14,2180PS-04/TTP)</u>		
2pcs (for 04/14 model)		
	() 1-606-681-00	PC BOARD,HD-08 WITHOUT COMPONENT

<u>VR-05 BOARD (BVH-2000PS-00,02,10,12/2180PS-00,02)</u>		
1pc (for 00/02/10/12 model)		
	() A-6013-042-A	COMPLETE PCB,VR-05 (This assembly includes the following parts.)
C1,3	1-123-333-00	CAP,ELECT 100 25V
C6,7,9,10,12,13	1-131-341-00	CAP,TANT 0.1 10% 35V
C11,14	1-131-359-00	CAP,TANT 10 10% 25V
C5,8	1-131-373-00	CAP,TANT 22 10% 16V
C2,4	1-161-055-00	CAP,CERAMIC 0.022 10% 50V

Ref.No. or Q'ty	Part No.	Description
(VR-05 BOARD, LEVEL CONT PNL)		
R1,2	1-206-473-00	RES, METAL 27 5% 2W
RV3,5,7,9,11,13	1-224-919-00	RES, VAR, METAL 5K
RV15	1-224-920-00	RES, VAR, METAL 10K
RV4,6,8,10,12,14	1-228-548-00	RES WITH SW, VAR, CARBON 10K(A)
RV16,17	1-228-549-00	RES WITH SW, VAR, CARBON 10K(B)
RV1	1-228-550-00	RES, VAR, CARBON 10K(A)x2
RV2	1-228-551-00	RES WITH SW, VAR, CARBON 2K(A)x2
R12,13,16,19,20,23,27, 28,30,31	1-247-807-00	RES, CARBON 100 5% 1/6W
R8,10	1-247-813-00	RES, CARBON 180 5% 1/6W
R7,9	1-247-828-00	RES, CARBON 750 5% 1/6W
R3,4,5,6	1-247-836-00	RES, CARBON 1.6K 5% 1/6W
R33,35,36,38,39,41	1-247-843-00	RES, CARBON 3.3K 5% 1/6W
R17,24,32	1-247-850-00	RES, CARBON 6.2K 5% 1/6W
R14,15,21,22	1-247-855-00	RES, CARBON 10K 5% 1/6W
R11,18,25	1-247-862-00	RES, CARBON 20K 5% 1/6W
R34,37,40	1-247-869-00	RES, CARBON 39K 5% 1/6W
R26,29	1-247-879-00	RES, CARBON 100K 5% 1/6W
J1	1-507-552-21	JACK, PHONE
CN802M,803M	() 1-560-301-00	RECEP, 4P, MALE

Ref.No. or Q'ty	Part No.	Description
(VR-05 BOARD, LEVEL CONT PNL)		
CN805M,808M	() 1-560-302-00	RECEP, 5P, MALE
CN800M,801M,812M	() 1-560-303-00	RECEP, 6P, MALE
CN811M	() 1-560-304-00	RECEP, 8P, MALE
CN804M,806M,810M	() 1-560-305-00	RECEP, 10P, MALE
CN807M,809M	() 1-560-306-00	RECEP, 12P, MALE
IC1,2,3	8-759-745-59	IC NJM4559D
<u>VR-07 BOARD (BVH-2000PS-04/14,2180PS-04)</u>		
1pc (for 04/14 model)		
() A-6013-056-A COMPLETE PCB, VR-07		
(This assembly includes the following parts.)		
C1,3	1-123-333-00	CAP, ELECT 100 25V
C5,6,8,9,12,13,16,17	1-131-341-00	CAP, TANT 0.1 10% 35V
C7,10,11,14,15,18	1-131-359-00	CAP, TANT 10 10% 25V
C2,4	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
R1,2	1-206-473-00	RES, METAL 27 5% 2W
RV2,4,6,8,10,12,14,16	1-224-919-00	RES, VAR, METAL 5K

Ref.No. or Q'ty	Part No.	Description
(VR-07 BOARD, LEVEL CONT PNL)		
RV18	1-224-920-00	RES, VAR, METAL 10K
RV3, 5, 7, 9, 11, 13, 15, 17	1-228-548-00	RES WITH SW, VAR, CARBON 10K(A)
RV19, 20	1-228-549-00	RES WITH SW, VAR, CARBON 10K(B)
RV1	1-228-550-00	RES, VAR, CARBON 10K(A) x2
R6, 7, 9, 11, 16, 17, 19, 21, 27, 28, 30, 32, 38, 39, 41, 43	1-247-807-00	RES, CARBON 100 5% 1/6W
R5, 10, 15, 20, 25, 31, 36, 42	1-247-843-00	RES, CARBON 3.3K 5% 1/6W
R12, 22, 33, 44	1-247-850-00	RES, CARBON 6.2K 5% 1/6W
R3, 13, 23, 34	1-247-862-00	RES, CARBON 20K 5% 1/6W
R4, 14, 24, 35	1-247-869-00	RES, CARBON 39K 5% 1/6W
R8, 18, 26, 29, 37, 40	1-247-879-00	RES, CARBON 100K 5% 1/6W
J1	1-507-552-21	JACK, PHONE
CN802M, 803M	() 1-560-301-00	RECEP, 4P, MALE
CN805M, 808M	() 1-560-302-00	RECEP, 5P, MALE
CN800M, 801M, 812M	() 1-560-303-00	RECEP, 6P, MALE
CN811M	() 1-560-304-00	RECEP, 8P, MALE
CN804M, 806M, 810M	() 1-560-305-00	RECEP, 10P, MALE

Ref.No. or Q'ty	Part No.	Description
(VR-07 BOARD, LEVEL CONT PNL)		
CN807M, 809M	() 1-560-306-00	RECEP, 12P, MALE
IC1, 2, 3, 4	8-759-745-59	IC NJM4559D

ML-02 BOARD (BVH-2000PS-00, 02, 10, 12/2180PS-00, 02)

1pc (for 00/02/10/12 model)

() 1-606-711-00	PC BOARD, ML-02, WITHOUT COMPONENT	
R1,2,3,4	1-247-121-00	RES,CARBON 390 5% 1/4W
R5	1-247-233-00	RES,CARBON 510 5% 1/2W
CN811F	() 1-509-988-00	PLUG,HOUSING,8P
	() 1-560-298-00	CONTACT,FEMALE
SW1	1-516-994-00	SWITCH,SLIDE
6pcs	4-866-397-00	CUSHION,LED
D33,34,35	8-719-952-51	LED,AA5525S,ORG
D1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20,21,22,23,24, 25,26,27,28,29,30,31, 32	8-719-955-25	LED,PY5525S,YEL

Ref.No. or Q'ty	Part No.	Description
<u>ML-03 BOARD (BVH-2000PS-04/14,2180PS-04)</u>		
1pc (for 04/14 model)		
() 1-606-712-00		PC BOARD,ML-03 WITHOUT COMPONENT

R1,2,3,4,5	1-247-121-00	RES,CARBON 390 5% 1/4W
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R6	1-247-233-00	RES,CARBON 510 5% 1/2W
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CN811F	() 1-509-988-00	PLUG,HOUSING,8P
	() 1-560-298-00	CONTACT,FEMALE

SW1	1-516-994-00	SWITCH,SLIDE
6pcs	4-866-397-00	CUSHION,LED

D41,42,43		
	8-719-952-51	LED,AA5525S,ORG

D1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,16,17, 18,19,20,21,22,23,24, 25,26,27,28,29,30,31, 32,33,34,35,36,37,38, 39,40	8-719-955-25	LED,PY5525S,YEL
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MS-07 BOARD (BVH-2000PS-00,02,10,12/2180PS-00,02)

1pc (for 00/02/10/12 model)		
() 1-606-709-00		PC BOARD,MS-07 WITHOUT COMPONENT

R1,2,3,4,5,6,7,8,9,10, 11,12	1-247-811-00	RES,CARBON 150 5% 1/6W
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SW1,2,3,4,5,6,7,8,9,10, 11,12	1-554-048-00	SWITCH,PUSH
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CN821M	() 1-560-729-00	RECEP,34P,MALE
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Ref.No. or Q'ty	Part No.	Description
<u>MS-08 BOARD (BVH-2000PS-04/14,2180PS-04)</u>		
1pc (for 04/14 model)		
() 1-606-710-00		PC BOARD,MS-08 WITHOUT COMPONENT

R1,2,3,4,5	1-247-811-00	RES,CARBON 150 5% 1/6W
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SW1,2,3,4,5	1-554-048-00	SWITCH,PUSH
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CN821M	() 1-560-729-00	RECEP,34P,MALE
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AC-39 BOARD (BVH-2000PS,2180PS/POWER SUPPLY)

1pc	() A-4925-001-A	△ COMPLETE PCB,AC-39
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(This assembly includes the following parts.)

C323	1-123-885-00	CAP,ELECT 47 10V
C315,316	1-123-890-00	CAP,ELECT 2.2 400V

C322,324,330,331		
	1-123-903-00	CAP,ELECT 47 16V

C321,325	1-124-115-00	CAP,ELECT 10 16V
C332	1-124-116-00	CAP,ELECT 22 16V

C320	1-124-164-00	CAP,ELECT 4.7 50V
C317	1-130-777-00	CAP,POLY 0.1 10% 100V
C318,319	1-130-781-00	CAP,POLY 0.22 10% 100V

C301,302,304		
	1-130-917-00	△ CAP,POLY 0.1 20% 250V

Ref. No.
or Q'ty Part No. Description

(AC-39 BOARD, POWER SUPPLY)

C305, 306, 307, 308, 309,
310, 311, 312, 313, 314,
326, 327, 328, 329

1-130-926-00 Δ CAP, POLY 0.0033 20% 250V

R301 1-202-726-00 Δ RES, COMP 3.9M 10% 1/2W

R316, 317 1-205-677-00 Δ RES, WIREWOUND 1K 5% 5W

R315, 341 1-205-678-00 Δ RES, WIREWOUND 16K 5% 5W

R302, 303, 360

1-205-679-00 Δ RES, WIREWOUND 3.3 5% 20W

R306 1-215-857-11 Δ RES, METAL 10 5% 1W

R333 1-215-903-11 Δ RES, METAL 68K 5% 2W

R304, 305 1-214-918-00 RES, METAL 160K 1% 1/2W

RV303 1-228-867-00 RES, VAR, METAL 2K

RV301, 302

1-228-868-00 RES, VAR, METAL 10K

R323, 350 1-246-525-00 RES, CARBON 150K 5% 1/4W

R336 1-246-543-00 RES, CARBON 820K 5% 1/4W

R332, 358 1-247-083-00 RES, CARBON 10 5% 1/4W

R319, 324, 325, 337

1-247-107-00 RES, CARBON 100 5% 1/4W

R314, 318, 326, 331, 338,

339, 347, 359

1-247-131-00 RES, CARBON 1K 5% 1/4W

R309 1-247-141-00 RES, CARBON 2.7K 5% 1/4W

R310, 330 1-247-143-00 RES, CARBON 3.3K 5% 1/4W

R312, 335 1-247-147-00 RES, CARBON 4.7K 5% 1/4W

R322, 329 1-247-149-00 RES, CARBON 5.6K 5% 1/4W

R308 1-247-152-00 RES, CARBON 7.5K 5% 1/4W

R311, 313, 328, 348, 353

1-247-155-00 RES, CARBON 10K 5% 1/4W

R352 1-247-159-00 RES, CARBON 15K 5% 1/4W

R356 1-247-161-00 RES, CARBON 18K 5% 1/4W

R349, 354 1-247-167-00 RES, CARBON 33K 5% 1/4W

R357 1-247-171-00 RES, CARBON 47K 5% 1/4W

Ref. No.
or Q'ty Part No. Description

(AC-39 BOARD, POWER SUPPLY)

R351, 355 1-247-175-00 RES, CARBON 68K 5% 1/4W

R327 1-247-232-00 RES, CARBON 470 5% 1/2W

R321, 334, 342, 346

1-247-281-00 RES, CARBON 51K 5% 1/2W

R344, 345 1-247-269-00 RES, CARBON 16K 5% 1/2W

R320, 343 1-247-270-00 RES, CARBON 18K 5% 1/2W

R307, 340 1-214-920-00 Δ RES, CARBON 200K 5% 1/2W

L301, 302 1-421-532-00 COIL, CHOKE

L303 1-421-534-00 Δ TRANSFORMER, CHOKE

L306 1-441-855-00 COIL, CHOKE

L304, 305 1-459-215-00 COIL, CHOKE

CN309F, 310F

() 1-509-984-00 PLUG, HOUSING, 3P

() 1-560-298-00 CONTACT, FEMALE

RY301 1-515-450-00 Δ RELAY, 12V 180-OHM

F301 1-532-496-00 Δ FUSE, 109C

CN303M () 1-560-176-00 Δ RECEP, 2P, MALE

CN312M () 1-560-177-00 Δ RECEP, 4P, MALE

CN309M, 310M

() 1-560-300-00 RECEP, 3P, MALE

CN305M, 311M

() 1-560-310-00 RECEP, 4P, MALE

C306M () 1-560-753-00 RECEP, 5P, MALE

CN308M () 1-560-888-00 RECEP, 3P, MALE

CN307M () 1-560-889-00 RECEP, 5P, MALE

CN304F () 1-561-977-00 Δ RECEP, 2P, FEMALE

CN301F () 1-561-978-00 Δ RECEP, 3P, FEMALE

CN302F () 1-561-979-00 Δ RECEP, 4P, FEMALE

D332 8-719-100-34 DIODE RD5.6E-B1

Ref.No. or Q'ty	Part No.	Description
(AC-39 BOARD, POWER SUPPLY)		
D303,304,314,318,323	8-719-100-40	DIODE RD6.8E-B1
D334	8-719-100-56	DIODE RD10E-B1
D306,307	8-719-100-70	DIODE RD15E-B1
D310	8-719-100-98	DIODE RD30E-B2
D311	8-719-104-17	DIODE 2P5M
D308	8-719-107-87	DIODE 03P2M
D312,313,321,322	8-719-110-00	DIODE RD100E
D309,320	8-719-200-02	DIODE 10E2
PH301	8-719-411-12	PHOTO INTERRUPTER ON1102
D301	8-719-500-07	DIODE S25VB60
D302,305,315,316,317, 319,324,325,326,327, 333	8-719-815-55	DIODE 1S1555
D328,329,330,331	8-719-911-55	DIODE U05G
Q304	8-729-177-43	TRANSISTOR 2SD774
Q303	8-729-217-33	TRANSISTOR 2SC1173
Q302,308	8-729-612-77	TRANSISTOR 2SA1027R
Q301,305,306,307,309	8-729-663-47	TRANSISTOR 2SC1364
IC301	8-759-132-40	IC UPC324C

Ref.No. or Q'ty	Part No.	Description
FV-02 BOARD (BVH-2000PS, 2180PS/POWER SUPPLY)		

1pc () A-4925-004-B Δ COMPLETE PCB, FV-02

(This assembly includes the following parts.)

1pc () A-4925-011-B COMPLETE PCB, FV-03
 1pc () A-4925-012-A COMPLETE PCB, CT-36-2
 1pc () A-4925-013-A COMPLETE PCB, CT-36-3

Q601&602,
 603&604 X-3673-684-0 TRANSISTOR 2SC2555, 2pcs
 This part is the kit of two transistors.
 Replace Q601&602 at the same time.
 Replace Q603&604 at the same time.

C617,633 1-108-587-00 CAP, MYLAR 0.022 5% 50V

C635,636 1-123-324-00 CAP, ELECT 1000 16V

C603,604,619,620
 1-123-601-00 CAP, ELECT 4.7 250V

C613,629,640,684,691
 1-123-961-00 CAP, ELECT 330 16V

C608,609,610,624,625
 626,699 1-124-129-00 CAP, ELECT 2200 25V

C602,618 1-125-290-00 CAP, ELECT 47 400V

C611,612,614,615,616,
 627,628,630,631,632,
 637,638,639,641,681,
 682,683,685,690,692
 1-130-777-00 CAP, POLY 0.1 10% 100V

C601 1-130-808-00 CAP, POLY 0.22 10% 400V

C605,621 1-161-740-00 Δ CAP, CERAMIC
 470PF 10% 400V

C606,622,642,643,644
 1-161-741-00 Δ CAP, CERAMIC
 0.001 10% 400V

Ref.No.
or Q'ty Part No. Description

(FV-02 BOARD, POWER SUPPLY)

C607,623,634

1-161-742-00 Δ CAP, CERAMIC
0.0022 20% 400V

C686,687,688,689

1-161-915-00 CAP, CERAMIC
0.001 10% 500V

R604,613 1-205-622-00 RES, WIREWOUND 33 5% 5W

R606,615,618

1-205-623-00 RES, WIREWOUND 47 5% 5W

R605,614 1-205-631-00 RES, WIREWOUND 15 5% 5W

R603,612 1-205-641-00 RES, WIREWOUND 330 5% 5W

R607,616 1-205-657-00 RES, WIREWOUND 150 5% 5W

R621 1-244-941-00 RES, CARBON 680K 5% 1/2W

R608,617 1-247-079-00 RES, CARBON 4.7 5% 1/4W

R601,602,610,611

1-247-087-00 RES, CARBON 15 5% 1/4W

R619 1-247-123-00 RES, CARBON 470 5% 1/4W

R609,620 1-247-244-00 RES, CARBON 1500 5% 1/2W

L681 1-421-225-00 FILTER, LINE

L610 1-421-259-00 FILTER, LINE

L609 1-421-370-00 COIL, CHOKE

L608 1-421-431-00 COIL, CHOKE

T603,606 1-421-460-00 Δ TRANSFORMER, CURRENT

L601 1-421-470-21 FILTER, LINE

L603,606 1-421-506-00 COIL, CHOKE

L602,605 1-421-531-00 COIL, CHOKE

L604,607 1-421-535-00 FILTER, LINE

L682 1-421-538-00 FILTER, LINE

T602,605 1-447-106-00 Δ TRANSFORMER, DRIVE

T601 1-447-329-00 Δ TRANSFORMER, CONVERTER

T604 1-447-330-00 Δ TRANSFORMER, CONVERTER

Ref.No.
or Q'ty Part No. Description

(FV-02 BOARD, POWER SUPPLY)

FB601,602,603,604,605,

606,607,608,609,610,

611,612,613,614

1-543-060-00 BEAD, FERRITE

S602 1-554-047-00 SWITCH, THERMAL REED 90°C

S601 1-554-047-21 SWITCH, THERMAL REED 70°C

CN601M () 1-560-176-00 RECEP, 2P, MALE

CN603M () 1-560-300-00 RECEP, 3P, MALE

CN602M () 1-560-305-00 RECEP, 10P, MALE

CN930M,931M

() 1-560-309-00 RECEP, 3P, MALE

CN926M () 1-560-314-00 RECEP, 10P, MALE

CN927M () 1-560-887-00 RECEP, 17P, MALE

D608 8-719-100-67 DIODE RD13E-B1

D607 8-719-300-29 DIODE CTG-31S

D603,606 8-719-820-15 LED, TLG115A, GRN

D601,602,604,605

8-719-902-43 DIODE ESAD33-02CS

Q605 8-729-331-53 TRANSISTOR 2SC2315

Ref.No. or Q'ty	Part No.	Description
<u>VV-01 BOARD (BVH-2000PS,2180PS/POWER SUPPLY)</u>		
1pc	() A-4925-003-B	△ COMPLETE PCB,VV-01
(This assembly includes the following parts.)		
4pcs	() A-4925-006-A	COMPLETE PCB,CT-37
3pcs	() A-4925-015-A	COMPLETE PCB,CT-36-7
Q201&202, 205&206, 209&210	X-3673-684-0	TRANSISTOR 2SC2555,2pcs This part is the kit of two transistors. Replace Q201&Q202 at the same time. Replace Q205&Q206 at the same time. Replace Q209&Q210 at the same time.
C212,227,241	1-106-190-00	CAP,MYLAR 0.0056 5% 100V
C265,266,267	1-108-377-00	CAP,MYLAR 0.01 10% 100V
C208,214,222,229,237, 244,252	1-108-587-00	CAP,MYLAR 0.022 5% 50V
C204,205,219,220,234, 235	1-123-601-00	CAP,ELECT 4.7 250V
C217,232,247,255	1-123-961-00	CAP,ELECT 330 16V
C216,231,246,254	1-124-131-00	CAP,ELECT 47 100V
C211,213,215,226,228, 230,242,243,245,250, 251,253	1-124-132-00	CAP,ELECT 330 100V
C202,203	1-125-290-00	CAP,ELECT 47 400V
C207,209,218,223,224, 233,238,239,248,256, 260,261,262,263,264	1-130-777-00	CAP,POLY,0.1 10% 100V

Ref.No. or Q'ty	Part No.	Description
(VV-01 BOARD,POWER SUPPLY)		
C201	1-130-808-00	CAP,POLY,0.22 10% 400V
C210,225,240	1-161-740-00	△ CAP,CERAMIC 470PF 10% 400V
C206,221,236,249,257, 258,259	1-161-741-00	△ CAP,CERAMIC 0.001 10% 400V
R205,215,223,232,238, 247,256	1-205-623-00	RES,WIREWOUND 47 5% 5W
R207,208,224,225,241, 242,252,253	1-205-624-00	RES,WIREWOUND 100 5% 5W
R201,218,235	1-205-625-00	RES,WIREWOUND 220 5% 5W
R206,221,239	1-205-657-00	RES,WIREWOUND 150 5% 5W
R212,229,246,255	1-217-596-00	RES,METAL 0.05 10% 2W
R262	1-244-941-00	RES,CARBON 680K 5% 1/2W
R213,230,249,257	1-247-071-00	RES,CARBON 1 5% 1/4W
R204,222,240	1-247-080-00	RES,CARBON 5.6 5% 1/4W
R202,203,219,220,236, 237	1-247-087-00	RES,CARBON 15 5% 1/4W
R214,231,250,258	1-247-107-00	RES,CARBON 100 5% 1/4W
R216,233,248,263	1-247-125-00	RES,CARBON 560 5% 1/4W
R211,228,244	1-247-161-00	RES,CARBON 18K 5% 1/4W

Ref. No. or Q'ty	Part No.	Description
(VV-01 BOARD, POWER SUPPLY)		
R209, 226, 245	1-247-167-00	RES, CARBON 33K 5% 1/4W
R217, 234, 251	1-247-168-00	RES, CARBON 36K 5% 1/4W
R210, 227, 243	1-247-176-00	RES, CARBON 75K 5% 1/4W
R254	1-247-274-00	RES, CARBON 27K 5% 1/2W
L205, 210, 215, 220	1-421-329-00	COIL, CHOKE
L206, 211, 216, 221	1-421-458-00	FILTER, LINE
T202, 206, 210	1-421-460-00	TRANSFORMER, CURRENT
L201	1-421-470-21	FILTER, LINE
L202, 207, 212, 217	1-421-539-00	COIL, CHOKE
L204, 209, 214, 219	1-421-540-00	COIL, CHOKE
T204, 208, 212, 213	1-437-114-00	TRANSFORMER, DRIVE
T203, 207, 211	1-447-106-00	TRANSFORMER, DRIVE
T201, 205	1-447-334-00	TRANSFORMER, CONVERTER
T209	1-447-335-00	TRANSFORMER, CONVERTER
FB201, 202, 203, 204, 205, 206, 207, 209, 210, 211, 212, 213, 215, 216, 217, 218, 219, 221, 222, 223, 224, 225, 227, 228, 229, 230	1-543-060-00	BEAD, FERRITE
CN201M	() 1-560-176-00	RECEP, 2P, MALE

Ref. No. or Q'ty	Part No.	Description
(VV-01 BOARD, POWER SUPPLY)		
CN202M, 203M	() 1-560-303-00	RECEP, 6P, MALE
CN925M	() 1-560-313-00	RECEP, 8P, MALE
CN924M	() 1-560-886-00	RECEP, 11P, MALE
D204, 208, 212, 216	8-719-300-29	DIODE CTG-31S
D201, 205, 209, 213	8-719-300-52	DIODE CTU-38R
D202, 206, 210, 214	8-719-300-53	DIODE CTU-38S
D203, 207, 211, 215	8-719-981-01	DIODE ERA81-004
Q204, 208, 212, 214	8-729-177-43	TRANSISTOR 2SD774
Q203, 207, 211, 213	8-729-906-51	TRANSISTOR 2SC2944-02

FV-01 BOARD (BVH-2000PS, 2180PS/POWER SUPPLY)

1pc () A-4925-002-B COMPLETE PCB, FV-01

(This assembly includes the following parts.)

1pc	() A-4925-005-A	COMPLETE PCB, CT-36-1
1pc	() A-4925-007-A	COMPLETE PCB, CT-38
1pc	() A-4925-008-A	COMPLETE PCB, PA-19
1pc	() A-4925-009-A	COMPLETE PCB, ST-21
1pc	() A-4925-014-A	COMPLETE PCB, CT-36-4

Ref.No. or Q'ty	Part No.	Description
(FV-01 BOARD, POWER SUPPLY)		
Q101&102,		
103&104	X-3673-684-0	TRANSISTOR 2SC2555, 2pcs This part is the kit of two transistors. Replace Q101&102 at the same time. Replace Q103&104 at the same time.
Q105&106	X-3673-685-0	TRANSISTOR 2SC2654, 2pcs This part is the kit of two transistors. Replace Q105&106 at the same time.
C180	1-106-172-00	CAP, MYLAR 0.001 5% 100V
C112, 135	1-108-587-00	CAP, MYLAR 0.022 5% 50V
C175, 177, 179	1-123-356-00	CAP, ELECT 10 50V
C103, 104, 123, 124	1-123-601-00	CAP, ELECT 4.7 250V
C127, 128, 148, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 174, 176, 178	1-123-876-00	CAP, ELECT 330 25V
C121, 146, 150	1-123-961-00	CAP, ELECT 330 16V
C113, 114, 115, 116, 117	1-123-962-00	CAP, ELECT 2200 16V
C137, 171, 172	1-124-126-00	CAP, ELECT 47 25V
C140, 141, 143, 144	1-124-129-00	CAP, ELECT 2200 25V
C102, 122	1-125-290-00	CAP, ELECT 47 400V
C181	1-130-711-00	△ CAP, POLY 0.22 20% 250V
C106, 107, 108, 111, 118, 119, 120, 132, 133, 134, 139, 145, 147, 149	1-130-777-00	CAP, POLY 0.1 10% 100V

Ref.No. or Q'ty	Part No.	Description
(FV-01 BOARD, POWER SUPPLY)		
C101, 125	1-130-808-00	CAP, POLY 0.22 10% 400V
C173	1-130-918-00	CAP, POLYPROPYLENE 200PF 5% 50V
C105, 126, 138, 142	1-161-740-00	△ CAP, CERAMIC 470PF 10% 400V
C109, 129, 130, 131	1-161-741-00	△ CAP, CERAMIC 0.001 10% 400V
C110	1-161-742-00	△ CAP, CERAMIC 0.0022 20% 400V
C136	1-161-925-00	CAP, CERAMIC 100PF 10% 500V
R110, 116, 117	1-205-622-00	RES, WIREWOUND 33 5% 5W
R119	1-205-623-00	RES, WIREWOUND 47 5% 5W
R105, 118	1-205-625-00	RES, WIREWOUND 220 5% 5W
R109	1-205-631-00	RES, WIREWOUND 15 5% 5W
R101, 102, 111, 112	1-205-657-00	RES, WIREWOUND 150 5% 5W
R141, 142	1-205-658-00	RES, WIREWOUND 0.22 5% 5W
R135, 138	1-206-656-00	RES, METAL 470 5% 2W
R123	1-217-596-00	RES, METAL 0.05 10% 2W
R106, 120	1-247-079-00	RES, CARBON 4.7 5% 1/4W
R103, 104, 113, 114	1-247-087-00	RES, CARBON 15 5% 1/4W
R126, 127	1-247-099-00	RES, CARBON 47 5% 1/4W
R134	1-247-107-00	RES, CARBON 100 5% 1/4W
R137, 140	1-247-108-00	RES, CARBON 110 5% 1/4W
R122, 133, 144, 145	1-247-131-00	RES, CARBON 1K 5% 1/4W
R131, 136, 139	1-247-143-00	RES, CARBON 3300 5% 1/4W

Ref.No. or Q'ty	Part No.	Description
(FV-01 BOARD,POWER SUPPLY)		
R132	1-247-147-00	RES,CARBON 4700 5% 1/4W
R107,108,143	1-247-200-00	RES,CARBON 22 5% 1/2W
R129	1-247-232-00	RES,CARBON 470 5% 1/2W
R115,130	1-247-242-00	RES,CARBON 1200 5% 1/2W
R128	1-247-246-00	RES,CARBON 1800 5% 1/2W
R121	1-247-264-00	RES,CARBON 10K 5% 1/2W
L112,132	1-421-225-00	FILTER,LINE
L107,109	1-421-370-00	COIL,CHOKE
L111,113,115,117,118, 120,122,124,126,128, 130	1-421-421-00	COIL,CHOKE
L106,108	1-421-431-00	COIL,CHOKE
L133	1-421-458-00	FILTER,LINE
T103,107	1-421-460-00	⚠ TRANSFORMER,CURRENT
L101	1-421-470-21	FILTER,LINE
L103,104	1-421-506-00	COIL,CHOKE
L102	1-421-533-00	COIL,CHOKE
L105	1-421-535-00	FILTER,LINE
L119	1-421-536-00	FILTER,LINE
L114,116,121,123,125, 127,129,131	1-421-537-21	FILTER,LINE
T109	1-437-116-00	TRANSFORMER,PULSE
T106	1-447-053-00	⚠ TRANSFORMER,CONVERTER
T102,105	1-447-106-00	⚠ TRANSFORMER,DRIVE
T101	1-447-328-00	⚠ TRANSFORMER,CONVERTER
T104	1-447-331-00	⚠ TRANSFORMER,CONVERTER
T108	1-447-332-00	TRANSFORMER,CONVERTER
L110	1-459-123-00	COIL,CHOKE

Ref.No. or Q'ty	Part No.	Description
(FV-01 BOARD,POWER SUPPLY)		
RY101,102	1-515-482-00	RELAY,REED,12V 340-OHM
FB101,102,103,104,105, 106,107,108,109,110, 111,112,113,114	1-543-060-00	BEAD,FERRITE
S102	1-554-047-00	SWITCH,THERMAL REED 90°C
S101	1-554-047-21	SWITCH,THERMAL REED 70°C
CN101M ()	1-560-176-00	RECEP,2P,MALE
CN103M,105M	() 1-560-300-00	RECEP,3P,MALE
CN102M,104M	() 1-560-301-00	RECEP,4P,MALE
CN106M ()	1-560-305-00	RECEP,10P,MALE
CN107M ()	1-560-306-00	RECEP,12P,MALE
CN928M ()	1-560-311-00	RECEP,5P,MALE
CN923M ()	1-560-312-00	RECEP,6P,MALE
CN921M ()	1-560-315-00	RECEP,12P,MALE
CN922F ()	1-561-086-00	PLUG,HOUSING,9P
()	1-561-067-00	CONTACT,FEMALE
D149,150,154	8-719-100-70	DIODE RD15E-B1
D153	8-719-100-87	DIODE RD22E-B3
D105,107,108,109,110, 111,112,113,114,115, 116,117,118,119,120, 121,122,123,124,125, 126,127,128,129,130, 131,132,133,134,135, 136,137,138,139,140, 141,142,143,144,145	8-719-104-07	DIODE F114F
D106	8-719-200-02	DIODE 10E2
D101,102	8-719-300-29	DIODE CTG-31S
D152	8-719-815-85	DIODE 1S1585

Ref.No. or Q'ty	Part No.	Description
(FV-01 BOARD, POWER SUPPLY)		
D146, 147, 148, 151	8-719-820-15	LED, TLG115A, GRN
D103, 104	8-719-902-43	DIODE ESAD33-02CS
Q109, 111	8-729-178-54	TRANSISTOR 2SC2785
Q107	8-729-194-57	TRANSISTOR 2SC945-P
Q112, 113	8-729-217-33	TRANSISTOR 2SC1173
Q108, 110	8-729-331-53	TRANSISTOR 2SC2315
IC102	8-759-178-05	IC UPC78L05
IC101	8-759-245-28	IC TC4528BP, CMOS

PS-14 BOARD (BVH-2000PS, 2180PS/POWER SUPPLY)

1pc () A-6023-030-A COMPLETE PCB, PS-14
(This assembly includes the following parts.)

C6, 16, 20, 25, 33, 38, 47, 50, 56, 60, 63, 68, 73	1-102-110-00	CAP, CERAMIC 220PF 10% 50V
C8, 17, 21, 26, 32, 37, 46, 51, 55, 59, 64, 67, 72	1-102-121-00	CAP, CERAMIC 0.0022 10% 50V
C18, 22, 34, 48, 57, 61, 88, 89, 90, 91, 92	1-123-308-00	CAP, ELECT 220 10V
C31	1-123-321-00	CAP, ELECT 220 16V
C24	1-123-332-00	CAP, ELECT 47 25V
C15, 19, 36, 44, 49, 54, 58, 62, 66, 71, 75, 98, 100	1-123-333-00	CAP, ELECT 100 25V

Ref.No. or Q'ty	Part No.	Description
(PS-14 BOARD, POWER SUPPLY)		
C102	1-123-356-00	CAP, ELECT 10 50V
C82	1-123-372-00	CAP, ELECT 33 63V
C10, 28, 40, 52, 70, 83, 118	1-123-380-00	CAP, ELECT 1 100V
C76, 81	1-123-851-00	CAP, ELECT 330 25V
C3, 4	1-123-862-00	CAP, ELECT 220 25V
C13, 42	1-123-880-11	CAP, ELECT, NONPOLAR 47 16V

C84, 86, 93, 95, 97	1-123-963-00	CAP, ELECT 100 25V
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C9, 14, 27, 41, 43, 45, 53, 65, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
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C1, 2, 5, 77, 78, 79, 80, 85, 87, 94, 96, 99, 101	1-161-926-00	CAP, CERAMIC 0.22 10% 50V
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R70, 111	1-212-364-00	RES, METAL 2.2 5% 1W
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R58	1-212-366-00	RES, METAL 3.3 5% 1W
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R75, 78	1-213-135-00	RES, METAL 220 5% 1W
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R141, 144, 145	1-213-140-00	RES, METAL 560 5% 1W
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R231	1-214-111-00	RES, METAL 130 1% 1/4W
R232	1-214-129-00	RES, METAL 750 1% 1/4W

R269	1-214-132-00	RES, METAL 1K 1% 1/4W
R89, 101	1-214-136-00	RES, METAL 1.5K 1% 1/4W
R207, 218	1-214-140-00	RES, METAL 2.2K 1% 1/4W

R155, 178, 191	1-214-144-00	RES, METAL 3.3K 1% 1/4W
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R67, 108, 124	1-214-147-00	RES, METAL 4.3K 1% 1/4W
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Ref.No. or Q'ty	Part No.	Description
(PS-14 BOARD, POWER SUPPLY)		
R135, 163, 200, 212	1-214-149-00	RES, METAL 5.1K 1% 1/4W
R96	1-214-150-00	RES, METAL 5.6K 1% 1/4W
R85, 87, 151, 153, 174, 176, 185, 187, 221, 223	1-214-151-00	RES, METAL 6.2K 1% 1/4W
R98	1-214-152-00	RES, METAL 6.8K 1% 1/4W
R133, 161, 198, 210	1-214-153-00	RES, METAL 7.5K 1% 1/4W
R69, 110, 122	1-214-158-00	RES, METAL 12K 1% 1/4W
R68, 109, 123	1-214-163-00	RES, METAL 20K 1% 1/4W
R226, 230	1-214-164-00	RES, METAL 22K 1% 1/4W
R86, 97, 134, 152, 162, 175, 186, 199, 211, 222	1-214-167-00	RES, METAL 30K 1% 1/4W
R126	1-214-170-00	RES, METAL 39K 1% 1/4W
R259	1-217-212-00	RES, WIREWOUND 10 10% 2W
R10, 13, 37, 43, 46, 49	1-217-237-00	RES, WIREWOUND 0.1 10% 3W
R1, 4, 7, 16, 19, 22, 25	1-217-241-00	RES, WIREWOUND 0.22 10% 3W
R28, 31, 34, 40, 52, 55	1-217-243-00	RES, WIREWOUND 0.33 10% 3W
R260, 261	1-217-259-00	RES, WIREWOUND 6.8 10% 3W
R258	1-217-294-00	RES, WIREWOUND 4.7 10% 5W
RV1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	1-230-843-11	RES, VAR, METAL 10K

Ref.No. or Q'ty	Part No.	Description
(PS-14 BOARD, POWER SUPPLY)		
R79, 104, 129, 242, 243, 245, 249, 251	1-247-078-00	RES, CARBON 3.9 5% 1/4W
R240	1-247-082-00	RES, CARBON 8.2 5% 1/4W
R267	1-247-120-00	RES, CARBON 360 5% 1/4W
R265, 270	1-247-131-00	RES, CARBON 1K 5% 1/4W
R266	1-247-137-00	RES, CARBON 1.8K 5% 1/4W
R279	1-247-158-00	RES, CARBON 13K 5% 1/4W
R61	1-247-180-00	RES, CARBON 1 5% 1/2W
R234, 235, 236, 238, 239, 241, 244, 246, 247, 248, 250, 252, 253, 255, 256	1-247-783-00	RES, CARBON 10 5% 1/6W
R205, 216	1-247-807-00	RES, CARBON 100 5% 1/6W
R2, 5, 8, 11, 14, 29, 32, 35, 38, 41, 44, 48, 51, 53, 56	1-247-815-00	RES, CARBON 220 5% 1/6W
R277	1-247-816-00	RES, CARBON 240K 5% 1/6W
R15	1-247-819-00	RES, CARBON 330 5% 1/6W
R39, 45	1-247-820-00	RES, CARBON 360 5% 1/6W
R12	1-247-821-00	RES, CARBON 390 5% 1/6W
R17, 20, 23, 26	1-247-822-00	RES, CARBON 430 5% 1/6W
R276	1-247-824-00	RES, CARBON 510 5% 1/6W
R47, 50	1-247-827-00	RES, CARBON 680 5% 1/6W
R59, 62, 268	1-247-831-00	RES, CARBON 1K 5% 1/6W
R74, 81, 93, 115, 117	1-247-839-00	RES, CARBON 2.2K 5% 1/6W
R42	1-247-840-00	RES, CARBON 2.4K 5% 1/6W
R88, 100	1-247-842-00	RES, CARBON 3K 5% 1/6W
R64, 66, 80, 83, 92, 95, 105, 106, 120, 130, 132, 146, 149, 159, 169, 172, 184, 194, 195, 215, 219, 254, 262, 263	1-247-843-00	RES, CARBON 3.3K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(PS-14 BOARD, POWER SUPPLY)		
R33, 36, 54, 57, 148, 170, 182, 272, 273, 274, 275	1-247-847-00	RES, CARBON 4.7K 5% 1/6W
R60, 63	1-247-848-00	RES, CARBON 5.1K 5% 1/6W
R30	1-247-849-00	RES, CARBON 5.6K 5% 1/6W
R154, 177, 190	1-247-850-00	RES, CARBON 6.2K 5% 1/6W
R73, 114, 116, 139, 140, 166, 168, 203, 204, 264, 271	1-247-855-00	RES, CARBON 10K 5% 1/6W
R227	1-247-856-00	RES, CARBON 11K 5% 1/6W
R3, 6, 9	1-247-860-00	RES, CARBON 16K 5% 1/6W
R18, 21, 24, 27	1-247-863-00	RES, CARBON 22K 5% 1/6W
R72, 113	1-247-869-00	RES, CARBON 39K 5% 1/6W
R71, 112, 125, 137, 164, 201	1-247-870-00	RES, CARBON 43K 5% 1/6W
R65, 82, 94, 107, 118, 131, 147, 158, 171, 183, 206, 217, 233	1-247-871-00	RES, CARBON 47K 5% 1/6W
R138, 165, 202	1-247-872-00	RES, CARBON 51K 5% 1/6W
R209, 220	1-247-877-00	RES, CARBON 82K 5% 1/6W
L1	1-407-713-00	INDUCTOR, MICRO, 470 10%
RY1	1-515-452-00	RELAY, REED, 5V 380-OHM
CN913M	() 1-560-176-00	RECEP, 2P, MALE
CN911M, 912M	() 1-560-178-00	RECEP, 6P, MALE
CN905M, 918M	() 1-560-300-00	RECEP, 3P, MALE
CN917M	() 1-560-302-00	RECEP, 5P, MALE
CN916M	() 1-560-303-00	RECEP, 6P, MALE

Ref.No. or Q'ty	Part No.	Description
(PS-14 BOARD, POWER SUPPLY)		
CN903M, 915M	() 1-560-306-00	RECEP, 12P, MALE
CN902M	() 1-560-729-00	RECEP, 34P, MALE
CN901M	() 1-560-731-00	RECEP, 50P, MALE
CN914M	() 1-560-752-00	RECEP, 9P, MALE
CN904M	() 1-560-753-00	RECEP, 5P, MALE
1pc	1-570-258-12	SWITCH, THERMAL REED 90°C
19pcs	2-832-007-00	BUSHING(K), INSULATING
2pcs	() 3-303-890-01	SPRING, COMPRESSION
2pcs	() 3-651-849-00	SPACER, PANEL
TP23, 24, 25, 26	() 3-673-772-41	TERMINAL, TP
TP1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22	() 3-673-805-01	TERMINAL, TP
TPE1, 2, 3, 4, 5, 6	() 3-673-805-11	TERMINAL, TP
2pcs	3-680-316-00	NUT, M4, NYLON
19pcs	7-628-254-45	SCREW, PS 2.6x12
1pc	7-686-447-01	SCREW, PS 3x6
8pcs	7-686-527-01	SCREW, PSW 3x6
2pcs	7-686-640-09	SCREW, B 4x20
6pcs	() 7-687-603-24	SCREW, BTP 2.6x6
2pcs	7-688-004-12	WASHER, M4, MIDDLE
D18	8-719-151-07	DIODE RD5.1E-B
D1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 17, 20, 21	8-719-815-55	DIODE 1S1555
D14	8-719-901-89	DIODE 1SS84
Q24, 33, 36, 39, 44, 53	8-729-117-54	TRANSISTOR 2SA1175
Q20, 22, 31, 37, 51, 54, 55	8-729-177-43	TRANSISTOR 2SD774
Q21, 25, 28, 40, 45, 48	8-729-374-02	TRANSISTOR 2SB740

Ref.No. or Q'ty	Part No.	Description
(PS-14 BOARD, POWER SUPPLY)		
Q27, 29, 42, 47, 50	8-729-606-32	TRANSISTOR 2SC2603
Q23, 32, 35, 38, 43, 52	8-729-625-91	TRANSISTOR 2SC2259
Q26, 30, 41, 46, 49	8-729-697-92	TRANSISTOR 2SA979
Q1, 2, 3, 6, 7, 8, 9, 10, 11, 12, 14, 18, 19	8-729-810-62	TRANSISTOR 2SD1061-R
Q4, 5, 13, 15, 16, 17	8-729-882-52	TRANSISTOR 2SB825-R
IC14	8-759-103-93	IC UPC393C
IC2, 6, 8, 10, 11, 12	8-759-145-57	IC UPC4557C
IC13	8-759-178-05	IC UPC78L05
IC1, 3, 4, 5, 7, 9	8-759-377-23	IC HA17723G

CN-54 BOARD (BVH-2000PS, 2180PS/POWER SUPPLY)

1pc	() 1-607-596-00	PC BOARD, CN-54, WITHOUT COMPONENT
C471, 472, 473	1-124-129-00	CAP, ELECT 2200 25V
R471	1-205-658-00	RES, WIREWOUND 0.22 5% 5W
CN470M, 471M	1-560-300-00	RECEP, 3P, MALE

Ref.No. or Q'ty	Part No.	Description
<u>LA-02 BOARD (BVH-2000PS-00, 02, 10, 12/2180PS-00, 02/CN PNL)</u>		

1pc (for 00/02/10/12 model)
 () A-6013-043-A COMPLETE PCB, LA-02
 (This assembly includes the following parts.)

Q4&9, 12&17, 104&108,
 204&208, 301&306

X-3673-688-0 TRANSISTOR KIT,
 2SC1162 & 2SA715

This part is the kit of 2SC1162 & 2SA715
 Replace the following two transistors
 at the same time.

Q4&9 Q12&17 Q104&108
 Q204&208 Q310&306

2SC1162 should be used for Q4, 12, 104,
 204 and 301.
 2SA715 should be used for Q7, 17, 108,
 208 and 306.

C18, 33, 104, 117, 204, 217,
 303, 318, 321

1-107-077-00 CAP, MICA 47PF 5% 50V

C30, 45, 101, 119, 201, 219,
 306, 317, 323, 324, 325

1-107-085-00 CAP, MICA 100PF 5% 50V

C27, 42, 113, 213, 313

1-107-208-00 CAP, MICA 18PF 5% 500V

C22, 37, 110, 210, 308

1-108-579-00 CAP, MYLAR 0.01 5% 50V

C11 1-108-587-00 CAP, MYLAR 0.022 5% 50V

C23, 38, 109, 209, 309

1-109-547-00 CAP, MICA 330PF 5% 100V

C118, 218, 328

1-109-553-00 CAP, MICA 470PF 5% 100V

C326 1-123-318-00 CAP, ELECT 33 16V

C21, 36, 107, 207, 307

1-123-321-00 CAP, ELECT 220 16V

Ref.No. or Q'ty	Part No.	Description	Ref.No. or Q'ty	Part No.	Description
(LA-02 BOARD,2000PS-00,02,10,12/2180PS-00,02,CN PNL)			(LA-02 BOARD,2000PS-00,02,10,12/2180PS-00,02,CN PNL)		
C17,26,32,41,105,114, 205,214,302,312	1-123-323-00	CAP,ELECT 470 16V	R27,44,50,67,102,124, 202,224,301,321	1-247-075-00	RES,CARBON 2.2 5% 1/4W
C1,2,3,4	1-123-330-00	CAP,ELECT 22 25V	R38,61,120,220,313	1-247-093-00	RES,CARBON 27 5% 1/4W
C5,8,9,19,28,34,43,103, 112,116,121,203,212, 216,221,304,314,316, 319,322,327	1-123-333-00	CAP,ELECT 100 25V	R48,71,123,223,322	1-247-775-00	RES,CARBON 4.7 5% 1/6W
C12,14,24,39,330,331	1-123-356-00	CAP,ELECT 10 50V	R28,51,101,201,302	1-247-799-00	RES,CARBON 47 5% 1/6W
C329	1-131-240-00	CAP,TANT 47 20% 16V	R29,30,52,53,106,107, 114,206,207,214,303, 304,318,338	1-247-807-00	RES,CARBON 100 5% 1/6W
C108,120,208,220,310, 320	1-131-359-00	CAP,TANT 10 10% 25V	R49,72,122,222,323	1-247-813-00	RES,CARBON 180 5% 1/6W
C6,7,10,13,15,16,20,25, 29,31,35,40,44,102, 106,111,115,202,206, 211,215,301,305,311, 315	1-161-055-00	CAP,CERAMIC 0.022 10% 50V	R127,130,134,227,230, 234,325,327,328,330, 336	1-247-815-00	RES,CARBON 220 5% 1/6W
R19	1-206-447-00	RES,METAL 2.2 5% 2W	R40,63,116,216,316	1-247-818-00	RES,CARBON 300 5% 1/6W
R42,65	1-215-396-00	RES,METAL 91 1% 1/6W	R18,33,34,56,57,110,111, 210,211,308,309	1-247-819-00	RES,CARBON 330 5% 1/6W
R41,64,115,215,317	1-215-421-00	RES,METAL 1K 1% 1/6W	R135,235,339	1-247-822-00	RES,CARBON 430 5% 1/6W
R31,54,105,205,305,	1-215-453-00	RES,METAL 22K 1% 1/6W	R125,126,131,132,225, 226,231,232,331,332, 335,341,342	1-247-826-00	RES,CARBON 620 5% 1/6W
RV102,202,302	1-224-941-00	RES,VAR,METAL 20K	R36,59,108,208,311	1-247-831-00	RES,CARBON 1K 5% 1/6W
RV1,2,101,201,301	1-230-837-11	RES,VAR,METAL 100	R1,2,11	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
RB1	1-231-410-00	RES BLOCK,10Kx8	R26	1-247-843-00	RES,CARBON 3.3K 5% 1/6W
RB2	1-231-533-00	RES BLOCK,10Kx4	R15,129,229,329	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R35,37,58,60,109,119, 209,219,310,312	1-247-073-00	RES,CARBON 1.5 5% 1/4W			

Ref.No. or Q'ty	Part No.	Description	Ref.No. or Q'ty	Part No.	Description
(LA-02 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, CN PNL)			(LA-02 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, CN PNL)		
R14, 20, 21, 22, 23, 24, 25, 121, 221, 324	1-247-847-00	RES, CARBON 4.7K 5% 1/6W	CN604M, 607M	() 1-560-302-00	RECEP, 5P, MALE
R73	1-247-849-00	RES, CARBON 5.6K 5% 1/6W	CN608M, 609M, 613M	() 1-560-303-00	RECEP, 6P, MALE
R133, 233, 340	1-247-851-00	RES, CARBON 6.8K 5% 1/6W	CN602M, 603M	() 1-560-304-00	RECEP, 8P, MALE
R43, 46, 66, 69, 112, 113, 212, 213, 319, 320	1-247-853-00	RES, CARBON 8.2K 5% 1/6W	CN605M, 614M, 615M	() 1-560-305-00	RECEP, 10P, MALE
R4, 5, 6, 7, 8, 9, 10	1-247-855-00	RES, CARBON 10K 5% 1/6W	CN606M, 612M	() 1-560-306-00	RECEP, 12P, MALE
R128, 228, 334, 337	1-247-861-00	RES, CARBON 18K 5% 1/6W	CN601M 12pcs	1-560-755-00 1-563-859-11	RECEP, 16P, MALE RECEPTACLE, CONNECTOR 2P
R47, 70, 103, 203, 307, 326	1-247-863-00	RES, CARBON 22K 5% 1/6W	JP101, 102, 103, 104, 105, 106, 107, 201, 202, 203, 204, 205, 206, 207, 301, 302, 303, 304, 305, 306, 307	1-566-385-11	PIN, CONNECTOR 2P
R17	1-247-864-00	RES, CARBON 24K 5% 1/6W	TP1, 2, 3, 4, 5, 6, 7, 8, 101, 102, 103, 104, 105, 201, 202, 203, 204, 205, 301, 302, 303, 304, 305, 306, 307, 308	() 3-673-805-01	TERMINAL, TP
R12, 32, 55, 104, 204, 306	1-247-865-00	RES, CARBON 27K 5% 1/6W	TPE1, 2, 3, 4, 5, 6, 101, 102, 103, 104, 105, 201, 202, 203, 204, 205, 301, 302, 303, 304, 305, 306, 307, 308	() 3-673-805-11	TERMINAL, TP
R3	1-247-869-00	RES, CARBON 39K 5% 1/6W	10pcs 7-621-981-15		SCREW, PSW 2.6x6
R39, 45, 62, 68, 117, 118, 217, 218, 314, 315, 333	1-247-871-00	RES, CARBON 47K 5% 1/6W	2pcs 7-686-527-01		SCREW, PSW 3x6
R74	1-247-874-00	RES, CARBON 62K 5% 1/6W	7pcs 7-686-528-01		SCREW, PSW 3x8
R13	1-247-877-00	RES, CARBON 82K 5% 1/6W	D4 8-719-151-07		DIODE RD5.1E-B
R16	1-247-879-00	RES, CARBON 100K 5% 1/6W	D1, 2, 3, 5, 6, 101, 201, 301	8-719-815-55	DIODE 1S1555
T102, 202, 302	1-423-260-11	TRANSFORMER, INPUT	D7, 8	8-719-911-19	DIODE 1SS119
T1, 2, 101, 201, 301	1-427-518-00	TRANSFORMER, AUDIO OUTPUT			
CN610M, 611M	() 1-560-301-00	RECEP, 4P, MALE			

Ref.No. or Q'ty	Part No.	Description
(LA-02 BOARD, 2000PS-00, 02, 10, 12/2180PS-00, 02, CN PNL)		
Q5, 13, 105, 205, 302	8-729-307-58	TRANSISTOR 2SC1775A
Q1	8-729-387-28	TRANSISTOR 2SA872-E
Q11, 19, 106, 206, 308	8-729-658-32	TRANSISTOR 2SC1583
Q2, 3	8-729-606-32	TRANSISTOR 2SC2603
Q7, 15, 102, 202, 304	8-729-699-51	TRANSISTOR 2SA995
IC7	8-759-178-05	IC UPC78L05
IC4	8-759-240-28	IC TC4028BP, CMOS
IC5, 6	8-759-240-51	IC TC4051BP, CMOS
IC3	8-759-241-75	IC TC40175BP, CMOS
IC101, 201, 301, 302	8-759-302-65	IC HA12017
IC1	8-759-645-17	IC M54517P
IC2	8-759-901-48	IC SN74LS148N, TTL
IC303	8-759-921-91	IC TL191CN
Q6, 10, 14, 18, 103, 107, 203, 207, 303, 307	8-761-622-00	TRANSISTOR 2SC1636
Q8, 16, 101, 201, 305	8-765-020-00	TRANSISTOR 2SA884

Ref.No. or Q'ty	Part No.	Description
LA-02 BOARD (BVH-2000PS-04/14, 2180PS-04/CN PNL)		
1pc	() A-6013-057-A	COMPLETE PCB, LA-02 (This assembly includes the following parts.)
Q4&9, 12&17, 104&108, 204&208, 301&306, 401&406	X-3673-688-0	TRANSISTOR KIT, 2SC1162 & 2SA715 This part is the kit of 2SC1162 & 2SA715. Replace the following two transistors at the same time. Q4&9 Q12&17 Q104&108 Q204&208 Q310&306 2SC1162 should be used for Q4, 12, 104, 204 and 301. 2SA715 should be used for Q7, 17, 108, 208 and 306.
C18, 33, 104, 117, 204, 217, 303, 318, 321, 403, 417	1-107-077-00	CAP, MICA 47PF 5% 50V
C30, 45, 101, 119, 201, 219, 306, 317, 323, 324, 325, 406, 419	1-107-085-00	CAP, MICA 100PF 5% 50V
C27, 42, 113, 213, 313, 413	1-107-208-00	CAP, MICA 18PF 5% 500V
C22, 37, 110, 210, 308, 408	1-108-579-00	CAP, MYLAR 0.01 5% 50V
C11	1-108-587-00	CAP, MYLAR 0.022 5% 50V
C23, 38, 109, 209, 309, 409	1-109-547-00	CAP, MICA 330PF 5% 100V
C118, 218, 328, 421	1-109-553-00	CAP, MICA 470PF 5% 100V
C326	1-123-318-00	CAP, ELECT 33 16V
C21, 36, 107, 207, 307, 407	1-123-321-00	CAP, ELECT 220 16V

Ref.No. or Q'ty	Part No.	Description
(LA-02 BOARD, 2000PS-04, 14/2180PS-04, CN PNL)		
C17, 26, 32, 41, 105, 114, 205, 214, 302, 312, 402, 412	1-123-323-00	CAP, ELECT 470 16V
C1, 2, 3, 4	1-123-330-00	CAP, ELECT 22 25V
C5, 8, 9, 19, 28, 34, 43, 103, 112, 116, 121, 203, 212, 216, 221, 304, 314, 316, 319, 322, 327, 404, 414, 418, 420	1-123-333-00	CAP, ELECT 100 25V
C12, 14, 24, 39, 330, 331	1-123-356-00	CAP, ELECT 10 50V
C329	1-131-240-00	CAP, TANT 47 20% 16V
C108, 120, 208, 220, 310, 320, 410, 416	1-131-359-00	CAP, TANT 10 10% 25V
C6, 7, 10, 13, 15, 16, 20, 25, 29, 31, 35, 40, 44, 102, 106, 111, 115, 202, 206, 211, 215, 301, 305, 311, 315, 401, 405, 411, 415	1-161-055-00	CAP, CERAMIC 0.022 10% 50V
R19	1-206-447-00	RES, METAL 2.2 5% 2W
R42, 65	1-215-396-00	RES, METAL 91 1% 1/6W
R41, 64, 115, 215, 317, 417	1-215-421-00	RES, METAL 1K 1% 1/6W
R31, 54, 105, 205, 305, 405	1-215-453-00	RES, METAL 22K 1% 1/6W
RV102, 202, 302, 402	1-224-941-00	RES, VAR, METAL 20K
RV1, 2, 101, 201, 301, 401	1-230-837-11	RES, VAR, CERMET 100
RB1	1-231-410-00	RES BLOCK, 10Kx8
RB2	1-231-533-00	RES BLOCK, 10Kx4

Ref.No. or Q'ty	Part No.	Description
(LA-02 BOARD, 2000PS-04, 14/2180PS-04, CN PNL)		
R35, 37, 58, 60, 109, 119, 209, 219, 310, 312, 410, 412	1-247-073-00	RES, CARBON 1.5 5% 1/4W
R27, 44, 50, 67, 102, 124, 202, 224, 301, 321, 401, 421	1-247-075-00	RES, CARBON 2.2 5% 1/4W
R38, 61, 120, 220, 313, 413	1-247-093-00	RES, CARBON 27 5% 1/4W
R48, 71, 123, 223, 322, 422	1-247-775-00	RES, CARBON 4.7 5% 1/6W
R28, 51, 101, 201, 302, 402	1-247-799-00	RES, CARBON 47 5% 1/6W
R29, 30, 52, 53, 106, 107, 114, 206, 207, 214, 303, 304, 318, 338, 403, 404, 418	1-247-807-00	RES, CARBON 100 5% 1/6W
R49, 72, 122, 222, 323, 423	1-247-813-00	RES, CARBON 180 5% 1/6W
R127, 130, 134, 227, 230, 234, 325, 327, 328, 330, 336, 425, 427, 430	1-247-815-00	RES, CARBON 220 5% 1/6W
R40, 63, 116, 216, 316, 416	1-247-818-00	RES, CARBON 300 5% 1/6W
R18, 33, 34, 56, 57, 110, 111, 210, 211, 308, 309, 408, 409	1-247-819-00	RES, CARBON 330 5% 1/6W
R135, 235, 339, 432	1-247-822-00	RES, CARBON 430 5% 1/6W
R125, 126, 131, 132, 225, 226, 231, 232, 331, 332, 335, 341, 342, 428, 429, 434, 435	1-247-826-00	RES, CARBON 620 5% 1/6W
R36, 59, 108, 208, 311, 411	1-247-831-00	RES, CARBON 1K 5% 1/6W

Ref.No. or Qty	Part No.	Description
(LA-02 BOARD,2000PS-04,14/2180PS-04,CN PNL)		
R1,2,11	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R26	1-247-843-00	RES,CARBON 3.3K 5% 1/6W
R15,129,229,329,426	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R14,20,21,22,23,24,25, 121,221,324,424	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R73	1-247-849-00	RES,CARBON 5.6K 5% 1/6W
R133,233,340,433	1-247-851-00	RES,CARBON 6.8K 5% 1/6W
R43,46,66,69,112,113, 212,213,319,320,419, 420	1-247-853-00	RES,CARBON 8.2K 5% 1/6W
R4,5,6,7,8,9,10	1-247-855-00	RES,CARBON 10K 5% 1/6W
R128,228,334,337,431	1-247-861-00	RES,CARBON 18K 5% 1/6W
R47,70,103,203,307,326, 407	1-247-863-00	RES,CARBON 22K 5% 1/6W
R17	1-247-864-00	RES,CARBON 24K 5% 1/6W
R12,32,55,104,204,306, 406	1-247-865-00	RES,CARBON 27K 5% 1/6W
R3	1-247-869-00	RES,CARBON 39K 5% 1/6W
R39,45,62,68,117,118, 217,218,314,315,333, 414,415	1-247-871-00	RES,CARBON 47K 5% 1/6W
R74	1-247-874-00	RES,CARBON 62K 5% 1/6W
R13	1-247-877-00	RES,CARBON 82K 5% 1/6W
R16	1-247-879-00	RES,CARBON 100K 5% 1/6W
T102,202,302,402	1-423-260-11	TRANSFORMER, INPUT

Ref.No. or Qty	Part No.	Description
(LA-02 BOARD,2000PS-04,14/2180PS-04,CN PNL)		
T1,2,101,201,301,401	1-427-518-00	TRANSFORMER,AUDIO OUTPUT
CN610M,611M	() 1-560-301-00	RECEP,4P,MALE
CN604M,607M	() 1-560-302-00	RECEP,5P,MALE
CN608M,609M,613M	() 1-560-303-00	RECEP,6P,MALE
CN602M,603M	() 1-560-304-00	RECEP,8P,MALE
CN605M,614M,615M	() 1-560-305-00	RECEP,10P,MALE
CN606M,612M	() 1-560-306-00	RECEP,12P,MALE
JP101,102,103,104,105, 106,107,201,202,203, 204,205,206,207,301, 302,303,304,305,306, 307,401,402,403,404, 405,406,407	1-560-733-00	PIN,SHORT
CN601M	1-560-755-00	RECEP,16P,MALE
16pcs	1-561-832-00	PLUG,SHORT
TP1,2,3,4,5,6,7,8,101, 102,103,104,105,201, 202,203,204,205,301, 302,303,304,305,306, 307,308,401,402,403, 404,405	() 3-673-805-01	TERMINAL,TP
TPE1,2,3,4,5,6,101,102, 103,104,105,201,202, 203,204,205,301,302, 303,304,305,306,307, 308,401,402,403,404, 405	() 3-673-805-11	TERMINAL,TP

Ref.No. or Q'ty	Part No.	Description
(LA-02 BOARD, 2000PS-04, 14/2180PS-04, CN PNL)		
12pcs	7-621-981-15	SCREW, PSW 2.6x6
7pcs	7-686-527-01	SCREW, PSW 3x6
2pcs	7-686-528-01	SCREW, PSW 3x8
D4	8-719-151-07	DIODE RD5.1E-B
D1, 2, 3, 5, 6, 101, 201, 301, 401	8-719-815-55	DIODE 1S1555
D7, 8	8-719-911-19	DIODE 1SS119
Q5, 13, 105, 205, 302, 402	8-729-307-58	TRANSISTOR 2SC1775A
Q1	8-729-387-28	TRANSISTOR 2SA872-E
Q11, 19, 106, 206, 308, 408	8-729-658-32	TRANSISTOR 2SC1583
Q2, 3	8-729-663-47	TRANSISTOR 2SC1364
Q7, 15, 102, 202, 304, 404	8-729-699-51	TRANSISTOR 2SA995
IC7	8-759-178-05	IC UPC78L05
IC4	8-759-240-28	IC TC4028BP, CMOS
IC5, 6	8-759-240-51	IC TC4051BP, CMOS
IC3	8-759-241-75	IC TC40175BP, CMOS
IC101, 201, 301, 302, 401	8-759-305-50	IC CX550
IC1	8-759-645-17	IC M54517P
IC2	8-759-901-48	IC SN74LS148N, TTL
IC303	8-759-921-91	IC TL191CN
Q6, 10, 14, 18, 103, 107, 203, 207, 303, 307, 403, 407	8-761-622-00	TRANSISTOR 2SC1636
Q8, 16, 101, 201, 305, 405	8-765-020-00	TRANSISTOR 2SA884

Ref.No. or Q'ty	Part No.	Description
VM-01 BOARD (BVH-2000PS, 2180PS/CN PNL)		
1pc	() A-6011-062-A	COMPLETE PCB, VM-01 (This assembly includes the following parts.)
C31	1-106-184-00	CAP, MYLAR 0.0033 5% 100V
C10	1-107-160-00	CAP, MICA 36PF 5% 500V
C37	1-107-169-00	CAP, MICA 100PF 5% 500V
C11	1-107-170-00	CAP, MICA 110PF 5% 500V
C6	1-107-202-00	CAP, MICA 10PF 5% 500V
C42	1-107-204-00	CAP, MICA 12PF 5% 500V
C29	1-107-209-00	CAP, MICA 20PF 5% 500V
C2, 4, 35	1-108-587-00	CAP, MYLAR 0.022 5% 50V
C19	1-108-593-00	CAP, MYLAR 0.039 5% 50V
C7	1-109-538-00	CAP, MICA 130PF 5% 100V
C21, 36	1-109-539-00	CAP, MICA 150PF 5% 100V
C28	1-123-306-00	CAP, ELECT 47 10V
C83	1-123-308-00	CAP, ELECT 220 10V
C95, 96	1-123-318-00	CAP, ELECT 33 16V
C79, 81	1-123-321-00	CAP, ELECT 220 16V
C94	1-123-333-00	CAP, ELECT 100 25V
C17	1-123-379-00	CAP, ELECT 0.47 100V
C47	1-123-880-11	CAP, ELECT, NONPOLAR 47 16V
C44, 50, 57, 58	1-123-901-00	CAP, ELECT 2.2 50V
C1, 3, 8, 9, 15, 16, 18, 20, 22, 23, 24, 25, 26, 27, 30, 32, 33, 34, 38, 39, 40, 41, 43, 45, 46, 48, 49, 51, 52, 53, 54, 61, 63, 64, 66, 67, 69, 70, 71, 72, 73, 74, 75, 76, 77, 88, 89, 90, 91, 92, 93, 103, 104, 105, 106, 107, 108, 109, 110, 120, 121	1-161-051-00	CAP, CERAMIC 0.01 10% 50V
C5, 78, 80, 82, 84, 85, 86	1-161-057-00	CAP, CERAMIC 0.033 10% 50V

Ref.No. or Q'ty	Part No.	Description
(VM-01 BOARD,CN PNL)		
R102,104,105,132	1-214-100-00	RES,METAL 47 1% 1/4W
R107,108,109,112,116	1-214-101-00	RES,METAL 51 1% 1/4W
R32,81,128,130,134	1-214-104-00	RES,METAL 68 1% 1/4W
R89,90,91,92	1-214-105-00	RES,METAL 75 1% 1/4W
R106	1-214-108-00	RES,METAL 100 1% 1/4W
R88,93	1-214-112-00	RES,METAL 150 1% 1/4W
R83	1-214-139-00	RES,METAL 2K 1% 1/4W
R117,120,123	1-214-156-00	RES,METAL 10K 1% 1/4W
RV5	1-228-302-00	RES,VAR,CERMET 100
RV2	1-230-838-11	RES,VAR,METAL 200
RV4,6,7,8	1-230-839-11	RES,VAR,METAL 500
RV1,3	1-230-840-11	RES,VAR,METAL 1K
RB1,2,3,4,5,6	1-231-533-00	RES BLOCK,10Kx4
R17	1-247-767-00	RES,CARBON 2.2 5% 1/6W
R140,141,142,143,144, 145,146,147,148,149, 150,151,169,170,171, 172,173,174,175,176, 179,180,185,186,188, 189,191,192,194,195, 196,197,198,199	1-247-787-00	RES,CARBON 15 5% 1/6W
R18,85	1-247-795-00	RES,CARBON 33 5% 1/6W
R114	1-247-800-00	RES,CARBON 51 5% 1/6W

Ref.No. or Q'ty	Part No.	Description
(VM-01 BOARD,CN PNL)		
R23,27,33,34,35,41,49, 68,84,94,96,98,100,101, 103,111,113,115,119, 122,125,127,129,131, 133,139,152,157,159, 166,178,181,182,184, 187,190,193,200	1-247-807-00	RES,CARBON 100 5% 1/6W
R26,40	1-247-811-00	RES,CARBON 150 5% 1/6W
R21,65	1-247-818-00	RES,CARBON 300 5% 1/6W
R38	1-247-820-00	RES,CARBON 360 5% 1/6W
R22	1-247-822-00	RES,CARBON 430 5% 1/6W
R82,118,121,124,156,158, 161,162,163,164,167, 168	1-247-823-00	RES,CARBON 470 5% 1/6W
R69,70	1-247-827-00	RES,CARBON 680 5% 1/6W
R25,62,67,86,87	1-247-831-00	RES,CARBON 1K 5% 1/6W
R64	1-247-833-00	RES,CARBON 1.2K 5% 1/6W
R24	1-247-838-00	RES,CARBON 2K 5% 1/6W
R3,6,7,14	1-247-839-00	RES,CARBON 2.2K 5% 1/6W
R73	1-247-842-00	RES,CARBON 3K 5% 1/6W
R77	1-247-845-00	RES,CARBON 3.9K 5% 1/6W
R1,2,4,5,8,9,10,11	1-247-847-00	RES,CARBON 4.7K 5% 1/6W
R42,43,44,60,61,80	1-247-848-00	RES,CARBON 5.1K 5% 1/6W
R15,20,36,46,47,50,53, 55,56,58,66,71,72,74, 78,79,97,137,138	1-247-855-00	RES,CARBON 10K 5% 1/6W
R76	1-247-858-00	RES,CARBON 13K 5% 1/6W
R63	1-247-863-00	RES,CARBON 22K 5% 1/6W
R37,48	1-247-866-00	RES,CARBON 30K 5% 1/6W
R12,13	1-247-869-00	RES,CARBON 39K 5% 1/6W

Ref.No. or Q'ty	Part No.	Description	Ref.No. or Q'ty	Part No.	Description
(VM-01 BOARD,CN PNL)			(VM-01 BOARD,CN PNL)		
R45	1-247-872-00	RES,CARBON 51K 5% 1/6W	Q4,5	8-729-110-53	TRANSISTOR 2SA1005
R19,51,57,75,126,135	1-247-879-00	RES,CARBON 100K 5% 1/6W	Q8,9,10,11	8-759-108-01	TRANSISTOR UPA68HA-M
R95,155,160,165	1-247-886-00	RES,CARBON 200K 5% 1/6W	IC12,22,29,30,31	8-743-930-00	IC BX-3930
R54	1-247-892-00	RES,CARBON 360K 5% 1/6W	IC9,11,13,21,23,24,25, 26,32,33,34,35	8-743-931-10	IC BX-3931A
R52	1-247-903-00	RES,CARBON 1M 5% 1/6W	IC3,4	8-759-240-13	IC TC4013BP,CMOS
L1	1-408-401-00	INDUCTOR,MICRO 2.2 5%	IC5	8-759-245-55	IC TC4555BP,CMOS
L2	1-408-421-00	INDUCTOR,MICRO 100 5%	IC6,7,8	8-759-645-17	IC M54517P
L3,4,5	1-409-339-00	COIL,SN	IC17	8-759-901-23	IC SN74LS123N,TTL
RY1,2,3,4,5,6,7,8	1-515-452-00	RELAY,REED,5V 380-OHM	IC1,2	8-759-901-48	IC SN74LS148N,TTL
FB1	1-535-178-00	FERRITE BEAD	IC19	8-759-942-65	IC SN74265N,TTL
S1,2,3	1-553-441-00	SWITCH,TOGGLE	IC18	8-759-951-07	IC SN75107AN,TTL
CN656M,658M	() 1-560-310-00	RECEP,4P,MALE	IC20	8-759-974-06	IC SN7406N,TTL
CN653M	() 1-560-312-00	RECEP,6P,MALE	IC14	8-759-990-82	IC TL082CP
CN654M,655M	() 1-560-313-00	RECEP,8P,MALE	IC15,16	8-759-990-84	IC TL084CN
CN652M	() 1-560-314-00	RECEP,10P,MALE	Q3	8-761-622-00	TRANSISTOR 2SC1636
CN657M	() 1-560-315-00	RECEP,12P,MALE	Q6	8-765-300-00	TRANSISTOR 2SC2009
CN651M	() 1-560-756-00	RECEP,20P,MALE	<u>CN-37 BOARD (BVH-2000PS,2180PS/CN PNL)</u>		
TPE1,2	() 3-673-772-01	TERMINAL,TP			
TP1,2,3	() 3-673-772-41	TERMINAL,TP	1pc	() 1-606-713-00	PC BOARD,CN-37, WITHOUT COMPONENT
6pcs	4-866-397-00	CUSHION,LED			
D14	8-719-168-07	DIODE RD6.8E-B			
D1,2,3,4,5,6,7,8,13	8-719-815-55	DIODE 1S1555			
D9,10,11,12	8-719-815-59	DIODE 1S1555-S			
Q1,2	8-723-302-00	TRANSISTOR 2SK43-2			

CN-49, FRAME

Ref.No. or Q'ty	Part No.	Description
<u>CN-49 BOARD (BVH-2000PS,2180PS/CN PNL)</u>		
1pc	() A-6025-082-A	COMPLETE PCB,CN-49
	() A-6025-095-A	COMPLETE PCB,CN-49
		(For BVH-2000PS 10,12,14 model)
		(This assembly includes the following parts.)
CN663M	1-560-769-00	RECEP,D-SUB 15-PIN,MALE
CN662F,664F		
	1-561-655-00	RECEP,D-SUB 9-PIN,FEMALE
CN661F	1-561-897-00	RECEP,D-SUB 15-PIN,FEMALE
CN666F	1-561-898-00	RECEP,D-SUB 37-PIN,FEMALE
CN665F	1-561-899-00	RECEP,D-SUB 50-PIN,FEMALE

Ref.No. or Q'ty	Part No.	Description
<u>FRAME (BVH-2000PS,2180PS)</u>		
M1	-----	MOTOR,THREADING included in MOVABLE GUIDE ASSY. See the exploded view,MOVABLE GUIDE ASSY block.
M2	-----	MOTOR,IP ROLLER included in IP ROLLER MOTOR ASSY. See the exploded view,TAPE TRANSPORT REAR ASSY block.
RV1	-----	POTENTIOMETER,S-TENSION included in S TENSION ARM ASSY. See the exploded view,TENSION ARM & TIMER ROLLER ASSY block.
RV2	-----	POTENTIOMETER,T-TENSION included in T TENSION ARM ASSY. See the exploded view,TENSION ARM & TIMER ROLLER ASSY block.
C011,012	1-125-289-00	CAP,ELECT 4700 200V
R601,602	1-214-105-00	RES,METAL 75 1% 1/4W
1pc	1-452-266-21	RING,FG MAGNET
PM4	1-454-263-21	SOLENOID,12V 60-OHM
PM1,2	1-454-304-00	SOLENOID,12V 15/180-OHM
PM3	1-454-305-00	SOLENOID,12V 20/52-OHM
CN631F	1-507-552-21	JACK,PHONE
CN626M (for 04/14 model), 625M,627M,628M,629M, 630M	1-509-176-31	RECEP,XLR3P,MALE
CN624F (for 04/14 model), 621F,622F,623F	1-509-184-31	RECEP,XLR3P,FEMALE
CN640F	1-509-471-00	RECEP,18P,FEMALE
CN007F ()	1-509-983-00	PLUG,HOUSING,2P
()	1-560-298-00	CONTACT,FEMALE

Ref. No. or Q'ty	Part No.	Description
(FRAME)		
CN103F (to FV-01 board),		
105F (to FV-01 board),		
603F (to FV-02 board),		
001F, 008F, 009F, 263F,		
265F, 267F, 269F, 309F,		
376F, 402F, 403F, 470F,		
471F, 905F, 918F, 930F,		
931F ()	1-509-984-00	PLUG, HOUSING, 3P
()	1-560-298-00	CONTACT, FEMALE

925F

CN362F (for 04/14 model).
102F (to FV-01 board).
104F (to FV-01 board).
305F (to AC-39 board).
311F (to AC-39 board).
021F, 022F, 024F, 262F.
354F, 355F, 384F, 387F.
401F (for BVH-2180PS).
610F, 611F, 656F, 658F.
803F

() 1-509-985-00 PLUG, HOUSING, 4P
() 1-560-298-00 CONTACT, FEMALE

CN282F (for 02/12/04/14 model),
365F (for 04/14 model),
003F, 004F, 023F,
042F (for BVH-2180PS),
112F, 261F, 353F, 361F,
373F, 374F, 377F, 386F,
604F, 607F, 805F, 808F,
917F, 928F
() 1-509-986-00 PLUG, HOUSING, 5P
() 1-560-298-00 CONTACT, FEMALE

CN202F (to RA-05 board),
202F (to VV-01 board),
203F (to VV-01 board),
204F, 351F, 371F, 372F,
381F, 383F, 608F, 609F,
613F, 653F, 800F, 801F,
812F, 916F, 923F
() 1-509-987-00 PLUG, HOUSING, 6P
() 1-560-298-00 CONTACT, FEMALE

Ref. No. or Q'ty	Part No.	Description
(FRAME)		
CN281F	(for 02/04 model),	
283F	(for 02/04 model),	
291F	(for 02/04 model),	
303F	(to MB-14 board),	
306F	(to MB-14 board),	
602F	(to LA-02 board),	
603F	(to LA-02 board),	
292F, 356F, 360F, 375F,		
388F, 654F, 655F, 811F,		


() 1-509-988-00 PLUG, HOUSING, 8P
() 1-560-298-00 CONTACT, FEMALE

CN106F (to CAPSTAN MOTOR),
106F (to FV-01 board),
302F (to MB-14 board),
305F (to MB-14 board),
602F (to FV-02 board),
002F, 357F, 363F, 382F,
605F, 614F, 615F, 652F,
804F, 806F, 810F, 926F

() 1-509-989-00 PLUG, HOUSING, 10P
() 1-560-298-00 CONTACT, FEMALE

ME4 (for 04/14 model),
1.2.3 1-520-450-00 METER, VU

ME5 1-520-451-00 METER, VIDEO/RF

CB301 1-532-653-00  CIRCUIT PROTECTOR,
50mA/65V


CB302 1-532-654-00  CIRCUIT BREAKER, 6A/240V

CB303 1-532-655-00 CIRCUIT BREAKER, 10A/240V

TB001 () 1-536-712-00 ! TERMINAL BOARD, 2P

M7, 8, 9, 10	1-541-170-21	FAN, DC 12V, FB-08B12HA
M301	1-541-203-00	FAN, DC 12V, FB-12C12L
S601, 602	1-552-078-00	SWITCH, SLIDE

S1 1-554-066-00 ⚠ SWITCH, SEESAW

S301 1-554-145-00  SWITCH, ROCKER

1pc 1-556-371-00 CORD, POWER

FRAME

Ref.No. or Q'ty	Part No.	Description
(FRAME)		
CN041F (for BVH-2180PS), 364F (for 02/12/04/14 model), 301F (to MB-14 board), 304F (to MB-14 board), 107F,350F,352F,606F, 612F,657F,807F,809F, 903F,915F,921F	() 1-561-056-00 () 1-560-298-00	PLUG,HOUSING,12P CONTACT,FEMALE
CN101F (to FV-01 board), 201F (to VV-01 board), 303F (to AC-39 board), 601F (to FV-02 board), 913F	() 1-561-069-00 () 1-561-067-00	PLUG,HOUSING,2P CONTACT,FEMALE
CN304M (to AC-39 board)	() 1-561-069-00 () 1-561-068-00	PLUG,HOUSING,2P CONTACT,MALE
CN312F (to AC-39 board)	() 1-561-070-00 () 1-561-067-00	PLUG,HOUSING,4P CONTACT,FEMALE
CN929F () 1-561-070-00 () 1-561-067-00	△ PLUG,HOUSING,4P △ CONTACT,FEMALE	
CN302M (to AC-39 board)	() 1-561-070-00 () 1-561-068-00	PLUG,HOUSING,4P CONTACT,MALE
CN103F (to CA-09 board), 117F,207F,209F	() 1-561-071-00 1-535-206-00	PLUG,HOUSING,6P CONTACT,FEMALE
CN208F,911F,912F	() 1-561-071-00 () 1-561-067-00	PLUG,HOUSING,6P CONTACT,FEMALE
CN914F () 1-561-072-00 () 1-561-067-00	PLUG,HOUSING,9P CONTACT,FEMALE	
CN922M () 1-561-072-00 () 1-561-068-00	PLUG,HOUSING,9P CONTACT,MALE	

Ref.No. or Q'ty	Part No.	Description
(FRAME)		
CN929M () 1-561-084-00 () 1-561-068-00	PLUG,HOUSING,4P CONTACT,MALE	
CN671F,672F,673F,674F, 675F,676F,677F,678F, 679F,680F,681F,682F, 683F,684F,685F,686F, 687F,688F	1-561-781-21	RECEP,BNC
CN104F (to CA-09 board), 308F (to AC-39 board), 116F () 1-561-828-00 () 1-561-067-00	PLUG,HOUSING,3P CONTACT,FEMALE	
CN301M (to AC-39 board) () 1-561-828-00 () 1-561-068-00	PLUG,HOUSING,3P CONTACT,MALE	
CN924F () 1-561-857-00 () 1-560-761-00	PLUG,HOUSING,11P CONTACT,FEMALE	
CN927F () 1-561-858-00 () 1-560-761-00	PLUG,HOUSING,17P CONTACT,FEMALE	
CN306F (to AC-39 board), 307F (to AC-39 board), 321F,904F	() 1-561-863-00 () 1-561-067-00	PLUG,HOUSING,5P CONTACT,FEMALE
CN701F 1-561-888-00 () 1-560-768-00	PLUG,HOUSING,10P CONTACT,FEMALE	
CN317F () 1-561-890-00 () 1-560-767-00 () 1-560-768-00	PLUG,HOUSING,20P CONTACT,FEMALE for AWG22-24 CONTACT,FEMALE for AWG24-28	
CN101F (to CA-09 board), 111F () 1-561-890-00 () 1-560-768-00	PLUG,HOUSING,20P CONTACT,FEMALE	

Ref.No. or Q'ty	Part No.	Description
(FRAME)		
CN314F	() 1-561-892-00 () 1-560-767-00 () 1-560-768-00	PLUG, HOUSING, 30P CONTACT, FEMALE for AWG22-24 CONTACT, FEMALE for AWG24-28
CN325F	() 1-561-892-00 () 1-560-768-00	PLUG, HOUSING, 30P CONTACT, FEMALE
CN203F (to RA-05 board), 010F	() 1-561-893-00 () 1-560-768-00	PLUG, HOUSING, 34P CONTACT, FEMALE
CN902F	() 1-561-893-00 () 1-560-767-00 () 1-560-768-00	PLUG, HOUSING, 34P CONTACT, FEMALE for AWG22-24 CONTACT, FEMALE for AWG24-28
CN322F	() 1-561-894-00 () 1-560-767-00 () 1-560-768-00	PLUG, HOUSING, 40P CONTACT, FEMALE for AWG22-24 CONTACT, FEMALE for AWG24-28
CN313F	() 1-561-895-00 () 1-560-768-00	PLUG, HOUSING, 50P CONTACT, FEMALE
CN901F	() 1-561-895-00 () 1-560-767-00 () 1-560-768-00	PLUG, HOUSING, 50P CONTACT, FEMALE for AWG22-24 CONTACT, FEMALE for AWG24-28
CN326F	() 1-561-896-00 () 1-560-768-00	PLUG, HOUSING, 60P CONTACT, FEMALE
1pc	1-933-205-00	FLAT CABLE ASSY, "DSH-1", 60P
includes CN316F & 667F.		
1pc (for 02/12/04/14 model)	1-933-206-00	COAXIAL CABLE ASSY, "CCH-1"
Includes CN264F, 266F, 268F, 270F, 271F, 272F, 307F, 308F, 309F, 310F, 311F & 312F.		

Ref.No. or Q'ty	Part No.	Description
(FRAME)		
1pc	1-933-220-00	FLAT CABLE ASSY, "CPH-2", 26P
includes CN324F & 702F.		
1pc	() 1-933-221-00	FLAT CABLE ASSY, "DSH-2", 60P
includes CN315F, 601F, 651F, 668F & 821F.		
1pc	1-933-222-00	FLAT CABLE ASSY, "ASH-1", 34P
includes CN261F, 323F, 385F & 810F.		
1pc (for 00/10 model)	1-933-561-00	COAXIAL CABLE ASSY "CCH-2"
includes CN264F, 266F, 268F, 270F, 307F, 308F, 311&312.		
H1	8-825-725-10	HEAD, VIDEO/SYNC ERASE, EF204-5102
H2 (for 00/10/02/12 model)	8-825-725-50	HEAD, AUDIO ERASE, EF204-5104B
H2 (for 04/14 model)	8-825-725-70	HEAD, AUDIO ERASE, EF204-5105A
H3 (for 00/02/10/12 model)	8-825-771-01	HEAD PA77-5104F
H4 (for 02/12 model)	8-825-771-01	HEAD PA77-5104F
H3 (for 04/14 model)	8-825-737-60	HEAD, AUDIO R/P, PA77-5105B
H4 (for 04/14 model)	8-825-737-70	HEAD, AUDIO MONITOR, PA77-5105C
M3	8-838-028-01	MOTOR, DC, S-REEL, BHF-2200A

FRAME, ACCESSORIES

Ref.No. or Qty	Part No.	Description
(FRAME)		
M4	8-838-028-11	MOTOR,DC,T-REEL, BHF-2200B
M5	8-838-029-01	MOTOR,DC,CAPSTAN, BHF-2300A

Ref.No. or Qty	Part No.	Description
<u>ACCESSORIES SUPPLIED (BVH-2000PS,2180PS)</u>		
1pc	1-506-421-00	ADAPTOR,PLUG,PHONE
1pc	1-560-771-00	PLUG,D-SUB,37-PIN,MALE
1pc	1-560-772-00	PLUG,D-SUB,50-PIN,MALE
1pc	1-563-378-11	SHELL,METAL PLATING,D-SUB,37P
1pc	1-563-379-11	SHELL,METAL PLATING,D-SUB,50P
1pc	3-680-379-01	PC BOARD INDICATION PANEL
6pcs	7-682-578-04	SCREW,+B 5x16
6pcs	7-623-212-22	SPRING WASHER,M5
6pcs	7-688-005-03	WASHER,M5,SMALL
1pc	commercially available REEL,EMPTY,R1-11V (for 2000) REEL,EMPTY,R1-14V (for 2180)	
1pc	A-6001-005-A	EXTENSION BOARD,EB-10 (This assembly includes the following parts.)
R3	1-247-115-00	RES,CARBON 220 5% 1/4W
R1,2	1-247-126-00	RES,CARBON 620 5% 1/4W
1pc	1-508-892-00	CONNECTOR,PCB,100P
178pcs	() 3-657-235-00	TERMINAL,TP
6pcs	7-621-981-15	SCREW,PSW2.6x6
4pcs	7-684-023-04	NUT,M3
4pcs	7-686-448-01	SCREW,PS3x8
D2	8-719-913-50	LED,GL3PG5,GRN
D3	8-719-930-33	LED,GL3PR3,RED
D1	8-719-930-53	LED,GL3HY3,YEL
1pc	() A-6030-052-A	STOPPER ASSY,PC BOARD

Ref.No. or Q'ty	Part No.	Description
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OPTIONAL FIXTURE (BVH-2000PS,2180PS)

2-034-697-00	CLEANING PIECE
7-700-733-01	ALIGNMENT SCREWDRIVER, SLOTTED HEAD
7-721-050-61	SCREWDRIVER,TOTSU,2mm
7-721-050-62	SCREWDRIVER,TOTSU,2.6mm
8-944-005-63	ALIGNMENT TAPE, BR5-2PS-A4
J-6041-770-A	IC TEST CLIP,TC-16
J-6041-780-A	IC TEST CLIP,TC-20
Manufacturer;	
AP Products Incorporated	
P.O.BOX 697,72 Corwin Drive	
Painesville,Ohio 44077,USA	
TEL:(216)354-2101	

J-6043-640-A	SWITCHING REGULATOR ADJUSTMENT FIXTURE
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J-6043-720-A	BRAKE ADJUSTMENT FIXTURE
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When using the following fixture,contact
your sony service office.

J-6043-870-A	GUIDE FLANGE FIXTURE
(This fixture includes the following spacer.)	
J-6044-000-A	SPACER

commercially available

	DEMAGNETIZER,SONY HE-4
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J-6043-230-C	BVH-2000 TOOL KIT
(This kit consists of the following.)	

J-6041-700-A	ALLEN WRENCH SET, L-SHAPED HEX.
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7-700-751-02	NUT DRIVER,5.5mm
7-700-766-02	SCREWDRIVER,HEX,1.4mm
7-700-766-03	SCREWDRIVER,HEX,2mm
7-700-766-04	SCREWDRIVER,HEX,2.5mm

Ref.No. or Q'ty	Part No.	Description
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(OPTIONAL FIXTURE)

7-721-050-63	SCREWDRIVER,TOTSU,3mm
7-721-050-64	SCREWDRIVER,TOTSU,4mm
J-6040-160-A	PLATE,FLAT
J-6040-460-A	SCREW,TAPERED
This part contains two screws.	
J-6250-800-A	ADJUSTMENT GAUGE, DRUM ECCENTRICITY
J-6041-640-A	TENSION SCALE,5kg
J-6041-670-A	THICKNESS GAUGE
J-6043-120-B	TENSION ADJUSTMENT TOOL
J-6043-380-A	CARRYING CASE

SECTION E CHANGED PARTS

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UP TO #33399 (BVH-2000PS)

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#33401 & UP (BVH-2000PS)

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MB-14A BOARD (BVH-2000PS,2180PS/CARD RACK)

CN402M,403M

1-560-309-00 RECEP,3P,MALE.....1-560-300-00 RECEP,3P,MALE

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UP TO #33499 (BVH-2000PS)

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#33501 & UP (BVH-2000PS)

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MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)

C507 NOT IN USE.....1-107-158-00 CAP,MICA 30PF 5% 500V

C510 1-107-158-00 CAP,MICA 30PF 5% 500V.....DELETED

D31,32,33,34,35,36

NOT IN USE.....8-719-101-98 DIODE 1SS97

IC8 8-759-100-91 IC UPC91A.....DELETED

L1,2,3,4

1-407-169-XX INDUCTOR,MICRO,100 5%.....1-408-421-00 INDUCTOR,MICRO,100 5%

L5,6 1-409-339-00 COIL,SN.....1-421-329-00 COIL,CHOKE

L11 1-407-169-00 INDUCTOR,MICRO,100 5%.....1-408-421-00 INDUCTOR,MICRO,100 5%

L15 1-409-339-00 COIL,SN.....1-421-329-00 COIL,CHOKE

R301,302

NOT IN USE.....1-215-437-00 RES,METAL 4.7K 1% 1/6W

RV10,18

1-230-144-00 RES,VAR,COMP 1K(B).....1-230-739-11 RES,VAR,CARBON 1K

TP1,2,3,4,5,6,7,8,9,10

3-673-805-01 TERMINAL,TP.....3-657-703-01 TERMINAL,TP

CD-17 BOARD (BVH-2000PS,2180PS/CARD RACK)

C49 1-108-595-00 CAP,MYLAR 0.047 5% 50V.....DELETED

C12,62 1-247-879-00 RES,CARBON 100K 5% 1/6W.....DELETED

CHANGED PARTS

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UP TO #33599 (BVH-2000PS)

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#33601 & UP (BVH-2000PS)

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MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)

R514 1-247-807-00 RES,CARBON 100 5% 1/6W.....1-247-814-00 RES,CARBON 200 5% 1/6W

SY-79 BOARD (BVH-2000PS,2180PS/CARD RACK)

IC1C	8-759-762-55	IC, EPROM, MBM2732-76U3-3.....8-759-764-20	IC, EPROM, MBM2732-76U3-4
IC1D	8-759-761-32	IC, EPROM, MBM2732-75U3-2.....8-759-764-19	IC, EPROM, MBM2732-75U3-3
IC1E	8-759-762-54	IC, EPROM, MBM2732-74U3-2.....8-759-764-18	IC, EPROM, MBM2732-74U3-3
IC1G	8-759-761-30	IC, EPROM, MBM2732-73U3-3.....8-759-764-17	IC, EPROM, MBM2732-73U3-4
IC1I	8-759-761-34	IC, EPROM, MBM2732-71A3-1.....8-759-764-15	IC, EPROM, MBM2732-71A3-2
IC1K	8-759-762-53	IC, EPROM, MBM2732-70U3-3.....8-759-764-13	IC, EPROM, MBM2732-70U3-4

SY-80 BOARD (BVH-2000PS,2180PS/CARD RACK)

IC1C	8-759-762-58	IC, EPROM, MBM2732-82U3-2.....8-759-764-23	IC, EPROM, MBM2732-82U3-3
IC1D	8-759-762-57	IC, EPROM, MBM2732-81U3-4.....8-759-764-22	IC, EPROM, MBM2732-81U3-5
IC1F	8-759-762-56	IC, EPROM, MBM2732-80U3-3.....8-759-764-21	IC, EPROM, MBM2732-80U3-4

RA-05 BOARD (BVH-2000PS,2180PS/TTP)

R55 1-247-839-00 RES,CARBON 2.2K 5% 1/6W.....1-247-847-00 RES,CARBON 4.7K 5% 1/6W

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UP TO #33699 (BVH-2000PS)

UP TO #10099 (BVH-2180PS)

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#33701 & UP (BVH-2000PS)

#10101 & UP (BVH-2180PS)

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SV-43 BOARD (BVH-2000PS,2180PS/CARD RACK)

(for BVH-2180PS)

IC1E	8-759-765-12	IC, EPROM, MBM2732-S1Q1-1.....8-759-765-69	IC, EPROM, MBM2732-S1Q1-2
IC6I	8-759-764-35	IC, EPROM, MBM2732-S7Q1.....8-759-765-48	IC, EPROM, MBM2732-S7Q1-2

RP-09 BOARD (BVH-2000PS,2180PS/TTP)

IC2,4	8-741-115-60	IC BX1156.....8-741-115-62	IC BX1156B
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CHANGED PARTS

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UP TO #33799 (BVH-2000PS)

UP TO #10199 (BVH-2180PS)

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#33801 & UP (BVH-2000PS)

#10201 & UP (BVH-2180PS)

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DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

1pc	NOT IN USE.....	A-6026-048-A	MOUNT PCB,DM-51
4pcs	NOT IN USE.....	4-812-134-11	RIVET NYLON,3.5
C30	1-123-379-00	CAP,ELECT 0.47 100V.....	1-124-253-00 CAP,ELECT 0.47 50V
C33	1-123-381-00	CAP,ELECT 2.2 100V.....	1-124-257-00 CAP,ELECT 2.2 50V
C37	1-108-573-00	CAP,MYLAR 0.0056 5% 50V.....	DELETED
C38	1-108-567-00	CAP,MYLAR 0.0033 5% 50V.....	DELETED
C39	1-108-585-00	CAP,MYLAR 0.018 5% 50V.....	1-130-486-00 CAP,MYLAR 0.018 5% 50V
C40	1-109-528-00	CAP,MICA 51PF 5% 100V.....	DELETED
C41	1-109-535-00	CAP,MICA 100PF 5% 100V.....	DELETED
C42	1-108-561-00	CAP,MYLAR 0.0018 5% 50V.....	DELETED
C43	1-108-563-00	CAP,MYLAR 0.0022 5% 50V.....	1-130-475-00 CAP,MYLAR 0.0022 5% 50V
C46	1-109-540-00	CAP,MICA 180PF 5% 100V.....	DELETED
C47	1-109-528-00	CAP,MICA 51PF 5% 100V.....	DELETED
C50	1-108-567-00	CAP,MYLAR 0.0033 5% 50V.....	DELETED
C54	1-108-587-00	CAP,MYLAR 0.022 5% 50V.....	1-130-487-00 CAP,MYLAR 0.022 5% 50V
C56	1-109-539-00	CAP,MICA 150PF 5% 100V.....	1-107-209-00 CAP,MICA 20PF 5% 500V
C96,97,108	1-123-330-00	CAP,ELECT 22 25V.....	1-124-234-00 CAP,ELECT 22 16V
C140	1-123-379-00	CAP,ELECT 0.47 100V.....	1-124-253-00 CAP,ELECT 0.47 50V
C143	1-108-555-00	CAP,MYLAR 0.001 5% 50V.....	DELETED
C152	NOT IN USE.....	1-124-234-00	CAP,ELECT 22 16V
C501,502	NOT IN USE.....	1-161-907-00	CAP,CERAMIC 0.0012 5% 50V
C503	NOT IN USE.....	1-109-541-00	CAP,MICA 200PF 5% 100V
C504	NOT IN USE.....	1-109-542-00	CAP,MICA 220PF 5% 100V
C505	NOT IN USE.....	1-130-471-00	CAP,MYLAR 0.001 5% 50V
C506	NOT IN USE.....	1-162-136-00	CAP,CERAMIC 0.01 50V
C507	NOT IN USE.....	1-109-542-00	CAP,MICA 220PF 5% 100V
C508	NOT IN USE.....	1-162-136-00	CAP,CERAMIC 0.01 50V
C509	NOT IN USE.....	1-109-530-00	CAP,MICA 62PF 5% 100V
C510	NOT IN USE.....	1-109-541-00	CAP,MICA 200PF 5% 100V
C511	NOT IN USE.....	1-109-542-00	CAP,MICA 220PF 5% 100V
C512	NOT IN USE.....	1-162-136-00	CAP,CERAMIC 0.01 50V
C513	NOT IN USE.....	1-109-541-00	CAP,MICA 200PF 5% 100V
C514	NOT IN USE.....	1-162-136-00	CAP,CERAMIC 0.01 50V
C515	NOT IN USE.....	1-124-257-00	CAP,ELECT 2.2 50V
C516	NOT IN USE.....	1-130-472-00	CAP,MYLAR 0.0012 5% 50V

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UP TO #33799 (BVH-2000PS)

UP TO #10199 (BVH-2180PS)

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#33801 & UP (BVH-2000PS)

#10201 & UP (BVH-2180PS)

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(DM-25 BOARD BVH-2000PS,2180PS/CARD RACK)

C517,518

NOT IN USE.....1-162-136-00 CAP,CERAMIC 0.01 50V

C519,520

NOT IN USE.....1-130-477-00 CAP,MYLAR 0.0033 5% 50V

CN6A

NOT IN USE.....1-564-929-11 CONNECTOR,PCB,14P

CN8E,9A

NOT IN USE.....1-564-930-11 CONNECTOR,PCB,16P

IC1A

8-759-900-10 IC SN74LS10N,TTL.....DELETED

IC4A,4D

8-759-902-21 IC SN74LS221N,TTL.....DELETED

IC5A

8-759-901-23 IC SN74LS123N,TTL.....DELETED

IC5B

8-759-900-00 IC SN74LS00N,TTL.....DELETED

IC6B

NOT IN USE.....8-759-900-10 IC SN74LS10N,TTL

IC6C,6D,6E,7B,7C

NOT IN USE.....8-759-902-21 IC SN74LS221N,TTL

IC7D

NOT IN USE.....8-759-900-74 IC SN74LS74AN,TTL

IC7E

NOT IN USE.....8-759-901-23 IC SN74LS123N,TTL

IC8B

NOT IN USE.....8-759-900-74 IC SN74LS74AN,TTL

IC8C,8D,9B

NOT IN USE.....8-759-900-00 IC SN74LS00N,TTL

IC9E

NOT IN USE.....8-759-902-21 IC SN74LS201N,TTL

R30

1-214-165-00 RES,METAL 24K 1% 1/4W.....DELETED

R34

1-247-866-00 RES,CARBON 30K 5% 1/6W.....DELETED

R36

1-247-867-00 RES,CARBON 33K 5% 1/6W.....DELETED

R52

1-247-878-00 RES,CARBON 91K 5% 1/6W.....DELETED

R53

1-247-879-00 RES,CARBON 100K 5% 1/6W.....DELETED

R54

1-247-831-00 RES,CARBON 1K 5% 1/6W.....DELETED

R56

1-247-838-00 RES,CARBON 2K 5% 1/6W.....DELETED

R59

1-214-160-00 RES,METAL 15K 1% 1/4W.....1-214-149-00 RES,METAL 5.1K 1% 1/4W

R62

1-247-850-00 RES,CARBON 6.2K 5% 1/6W.....1-247-838-00 RES,CARBON 2K 5% 1/6W

R63

1-247-863-00 RES,CARBON 22K 5% 1/6W.....1-247-862-00 RES,CARBON 20K 5% 1/6W

R193

1-247-831-00 RES,CARBON 1K 5% 1/6W.....DELETED

R208

1-247-870-00 RES,CARBON 43K 1/6W.....DELETED

R501

NOT IN USE.....1-215-464-00 RES,METAL 62K 1% 1/6W

R502

NOT IN USE.....1-215-455-00 RES,METAL 27K 1% 1/6W

R503

NOT IN USE.....1-215-460-00 RES,METAL 43K 1% 1/6W

R504

NOT IN USE.....1-215-454-00 RES,METAL 24K 1% 1/6W

R505

NOT IN USE.....1-215-466-00 RES,METAL 75K 1% 1/6W

CHANGED PARTS

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UP TO #33799 (BVH-2000PS)
UP TO #10199 (BVH-2180PS)

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#33801 & UP (BVH-2000PS)
#10201 & UP (BVH-2180PS)

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(DM-25 BOARD BVH-2000PS,2180PS/CARD RACK)

R506	NOT IN USE.....	1-215-448-00	RES,METAL 13K 1% 1/6W
R507	NOT IN USE.....	1-215-456-00	RES,METAL 30K 1% 1/6W
R508	NOT IN USE.....	1-215-460-00	RES,METAL 43K 1% 1/6W
R509	NOT IN USE.....	1-215-448-00	RES,METAL 13K 1% 1/6W
R510	NOT IN USE.....	1-215-460-00	RES,METAL 43K 1% 1/6W
R511,512	NOT IN USE.....	1-215-469-00	RES,METAL 100K 1% 1/6W
R513,514,515,516	NOT IN USE.....	1-215-445-00	RES,METAL 10K 1% 1/6W
R517	NOT IN USE.....	1-215-469-00	RES,METAL 100K 1% 1/6W
R518	NOT IN USE.....	1-215-445-00	RES,METAL 10K 1% 1/6W
R519	NOT IN USE.....	1-215-457-00	RES,METAL 33K 1% 1/6W
RV501	NOT IN USE.....	1-228-474-00	RES,VAR,CERMET 10K
RV502	NOT IN USE.....	1-228-473-00	RES,VAR,CERMET 5K
RV503	NOT IN USE.....	1-228-474-00	RES,VAR,CERMET 10K
TP501,502,503,504,505,506	NOT IN USE.....	2-296-824-01	TERMINAL,TP
TPE1	3-673-805-11	TERMINAL,TP.....	DELETED

MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)

L5,6,15	1-421-329-00	COIL,CHOKE.....	1-421-370-00	COIL,CHOKE
R65	1-247-791-00	RES,CARBON 22 5% 1/6W.....	1-247-807-00	RES,CARBON 100 5% 1/6W

LG-02(A) BOARD (BVH-2000PS,2180PS/CARD RACK)

L1	1-421-329-00	COIL,CHOKE.....	1-421-370-00	COIL,CHOKE
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SR-15 BOARD (BVH-2000PS,2180PS/CARD RACK)

L2,3,4	1-421-329-00	COIL,CHOKE.....	1-421-370-00	COIL,CHOKE
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UP TO #33799 (BVH-2000PS)

UP TO #10199 (BVH-2180PS)

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#33801 & UP (BVH-2000PS)

#10201 & UP (BVH-2180PS)

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DT-05 BOARD (BVH-2000PS,2180PS/CARD RACK)

L1 1-421-329-00 COIL,CHOKE.....1-421-370-00 COIL,CHOKE

DD-03 BOARD (BVH-2000PS-02,04/2180PS-02,04)

1pc (for 02/04 model)

A-6023-035-A COMPLETE PCB,DD-03.....A-6023-035-B COMPLATE PCB,DD-03

C16 NOT IN USE.....1-130-483-00 CAP,MYLAR 0.01 5% 50V

D9 NOT IN USE.....8-719-911-19 DIODE 1SS119

IC3 NOT IN USE.....8-759-245-39 IC TC4539BP,CMOS

R7 1-247-855-00 RES,CARBON 10K 5% 1/6W.....1-247-839-00 RES,CARBON 2.2K 5% 1/6W

R8 1-247-855-00 RES,CARBON 10k 5% 1/6W.....1-247-879-00 RES,CARBON 100K 5% 1/6W

R16 NOT IN USE.....1-247-871-00 RES,CARBON 47K 5% 1/6W

Q18 8-729-178-54 TRANSISTOR 2SC2785.....8-729-900-89 TRANSISTOR DTC144ES

Q19 NOT IN USE.....8-729-900-89 TRANSISTOR DTC144ES

RA-05 BOARD (BVH-2000PS,2180PS/TTP)

6pcs NOT IN USE.....7-623-208-22 SPRING WASHER,M2

6pcs NOT IN USE.....7-682-657-01 SCREW,+PS 3x40

6pcs NOT IN USE.....7-684-023-04 NUT,M3

12pcs 7-686-450-01 SCREW,PS 3x12.....DELETED

CHANGED PARTS

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UP TO #33899 (BVH-2000PS)
UP TO #10299 (BVH-2180PS)

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#33901 & UP (BVH-2000PS)
#10301 & UP (BVH-2180PS)

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SV-43 BOARD (BVH-2000PS,2180PS/CARD RACK)

(for BVH-2000PS)

IC61	8-759-764-38	IC, EPROM, MBM2732-S7U3-7.....	8-759-765-47	IC, EPROM, MBM2732-S7U3-8
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UP TO #33999 (BVH-2000PS)

UP TO #10399 (BVH-2180PS)

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#34001 & UP (BVH-2000PS)

#10401 & UP (BVH-2180PS)

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SL-07 BOARD (BVH-2000PS-02,04/BVH-2180PS-02,04)

1pc A-6026-023-A MOUNTED PCB,SL-07.....A-6026-023-B MOUNTED PCB,SL-07

SL-08 BOARD (BVH-2000PS-02,04/BVH-2180PS-02,04)

1pc A-6079-428-A MOUNTED PCB,SL-08.....A-6079-428-B MOUNTED PCB,SL-08

SL-09 BOARD (BVH-2000PS-02,04/BVH-2180PS-02,04)

1pc A-6079-429-B MOUNTED PCB,SL-09.....A-6079-429-C MOUNTED PCB,SL-09

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UP TO #34099 (BVH-2000PS)

#10399 (BVH-2180PS)

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#34101 & UP (BVH-2000PS)

#10401 & UP (BVH-2180PS)

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SR-15 BOARD (BVH-2000PS,2180PS/CARD RACK)

R67 1-247-847-00 RES,CARBON 4.7K 5% 1/6W.....1-247-846-00 RES,CARBON 4.3K 5% 1/6W

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UP TO #34199 (BVH-2000PS)

UP TO #10399 (BVH-2180PS)

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=====

#34201 & UP (BVH-2000PS)

#10401 & UP (BVH-2180PS)

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DT-05 BOARD (BVH-2000PS,2180PS/CARD RACK)

R39 1-214-143-00 RES,METAL 3K 1% 1/4W.....1-214-136-00 RES,METAL 1.5K 1% 1/4W

R146 1-247-859-00 RES,CARBON 15K 5% 1/6W.....1-247-873-00 RES,CARBON 56K 5% 1/6W

R147 NOT IN USE.....1-249-432-11 RES,CARBON 18K 5% 1/6W

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UP TO #34299 (BVH-2000PS)

UP TO #10499 (BVH-2180PS)

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#34301 & UP (BVH-2000PS)

#10501 & UP (BVH-2180PS)

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AP-12 BOARD (BVH-2000PS,2180PS)

IC501,601,602,603,604,

605 8-759-700-04 IC NJM2043D-D.....8-759-602-01 IC M5220P

D507 NOT IN USE.....8-719-930-33 LED,GL3PR3,RED

CHANGED PARTS

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UP TO #34599 (BVH-2000PS)	
UP TO #10599 (BVH-2180PS)	

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#34601 & UP (BVH-2000PS)	
#10601 & UP (BVH-2180PS)	

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DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

C523 NOT IN USE.....1-162-306-31 CAP,CERAMIC 0.01 30% 16V

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UP TO #34699 (BVH-2000PS)	
UP TO #10599 (BVH-2180PS)	

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#34701 & UP (BVH-2000PS)	
#10601 & UP (BVH-2180PS)	

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EQ-02 BOARD (BVH-2000PS,2180PS/CARD RACK)

(EQ-11 BOARD)

S2 1-553-510-00 SWITCH,SLIDE.....1-570-374-11 SWITCH,SLIDE

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UP TO #34799 (BVH-2000PS)	
UP TO #10699 (BVH-2180PS)	

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#34801 & UP (BVH-2000PS)	
#10701 & UP (BVH-2180PS)	

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EQ-02 BOARD (BVH-2000PS,2180PS/CARD RACK)

C127 1-107-202-00 CAP,MICA 10PF 5% 500V.....1-107-078-00 CAP,MICA 51PF 5% 50V

R211,220

1-215-445-00 RES,METAL 10K 1% 1/6W.....1-215-441-00 RES,METAL 6.8K 1% 1/6W

RV26 1-224-941-00 RES,VAR,METAL 20K.....1-224-942-00 RES,VAR,METAL 50K

R229 1-247-888-00 RES,CARBON 240K 5% 1/6W.....1-247-889-00 RES,CARBON 270K 5% 1/6W

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UP TO #34899 (BVH-2000PS)	
UP TO #10599 (BVH-2180PS)	

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#34901 & UP (BVH-2000PS)	
#10601 & UP (BVH-2180PS)	

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CD-17 BOARD (BVH-2000PS,2180PS/CARD RACK)

C70 1-130-487-00 CAP,MYLAR 0.022 5% 50V.....DELETED

R56 1-247-847-00 RES,CARBON 4.7K 5% 1/6W.....1-215-441-00 RES,METAL 6.8K 1% 1/6W

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UP TO #34899 (BVH-2000PS)

UP TO #10699 (BVH-2180PS)

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#34901 & UP (BVH-2000PS)

#10701 & UP (BVH-2180PS)

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AE-03 BOARD (BVH-2000PS,2180PS/CARD RACK)

C148	1-109-527-00	CAP,MICA 47PF 5% 100V.....	1-107-077-00	CAP,MICA 47PF 5% 50V
C150	1-109-531-00	CAP,MICA 68PF 5% 100V.....	1-107-081-00	CAP,MICA 68PF 5% 50V
C33	1-109-553-00	CAP,MICA 470PF 5% 100V.....	1-130-467-00	CAP,MYLAR 470PF 5% 50V
C149	1-109-555-00	CAP,MICA 560PF 5% 100V.....	1-130-468-00	CAP,MYLAR 560PF 5% 50V
C44	1-109-559-00	CAP,MICA 820PF 5% 100V.....	1-130-470-50	CAP,MYLAR 820PF 5% 50V
R128	1-214-105-00	RES,METAL 75 1% 1/4W.....	1-215-394-00	RES,METAL 75 1% 1/6W
R246	1-214-106-00	RES,METAL 82 1% 1/4W.....	1-215-395-00	RES,METAL 82 1% 1/6W
R274	1-214-122-00	RES,METAL 390 1% 1/4W.....	1-215-411-00	RES,METAL 390 1% 1/6W
R249	1-214-124-00	RES,METAL 470 1% 1/4W.....	1-215-413-00	RES,METAL 470 1% 1/6W
R273	1-214-125-00	RES,METAL 510 1% 1/4W.....	1-215-414-00	RES,METAL 510 1% 1/6W
R138	1-214-146-00	RES,METAL 3.9K 1% 1/4W.....	1-215-435-00	RES,METAL 3.9K 1% 1/6W
R119	1-214-153-00	RES,METAL 7.5K 1% 1/4W.....	1-215-442-00	RES,METAL 7.5K 1% 1/6W
R248	1-214-156-00	RES,METAL 10K 1% 1/4W.....	1-215-445-00	RES,METAL 10K 1% 1/6W
R21	1-247-863-00	RES,CARBON 22K 5% 1/6W.....	1-247-855-00	RES,CARBON 10K 5% 1/6W
R129	1-247-867-00	RES,CARBON 33K 5% 1/6W.....	1-247-866-00	RES,CARBON 30K 5% 1/6W

DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

C115	1-109-539-00	CAP,MICA 150PF 5% 100V.....	1-109-541-00	CAP,MICA 200PF 5% 100V
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SY-79 BOARD (BVH-2000PS,2180PS/CARD RACK)

C42	1-123-352-00	CAP,ELECT 1 50V.....	1-124-255-00	CAP,ELECT 1 20% 50V
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VM-01 BOARD (BVH-2000PS,2180PS/CN PNL)

C35	1-108-575-00	CAP,MYLAR 6800PF 5% 50V.....	1-108-587-00	CAP,MYLAR 0.022 5% 50V
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UP TO #34999 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35001 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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LA-02 BOARD (BVH-2000PS,2180PS/CN PNL)

TP102,202,302,402 (for 04,14)				
1-423-189-00	TRANSFORMER, INPUT.....	1-423-260-11	TRANSFORMER, INPUT	

AP-12 BOARD (BVH-2000PS,2180PS)

C116,216,316,416 (for 04,14)				
1-107-169-00	CAP,MICA 100PF 10% 50V.....	1-102-106-00	CAP,CERAMIC 100PF 10% 50V	

C521,522,523				
NOT IN USE	1-107-158-00	CAP,MICA 30PF 5% 500V		

BVH-2000PS

BVH-2180PS

CHANGED PARTS

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UP TO #34799 (BVH-2000PS)

UP TO #10699 (BVH-2180PS)

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=====

#34801 & UP (BVH-2000PS)

#10701 & UP (BVH-2180PS)

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CA-09 BOARD (BVH-2000PS,2180PS/TTP)

R138 1-247-831-00 RES,CARBON 1K 5% 1/6W.....1-247-839-00 RES,CARBON 2.2K 5% 1/6W

DA-07 BOARD (BVH-2000PS,2180PS/TTP)

R51 1-247-831-00 RES,CARBON 1K 5% 1/6W.....1-247-839-00 RES,CARBON 2.2K 5% 1/6W

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UP TO #34899 (BVH-2000PS)

UP TO #10699 (BVH-2180PS)

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#34901 & UP (BVH-2000PS)

#10701 & UP (BVH-2180PS)

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EQ-02 BOARD (BVH-2000PS,2180PS/CARD RACK)

(EQ-11 BOARD)

R359 NOT IN USE.....1-249-405-11 RES,CARBON 100 5% 1/6W

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UP TO #34999 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35001 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

R504 1-215-454-00 RES,METAL 24K 1% 1/6W.....1-215-452-00 RES,METAL 20K 1% 1/6W

R506 1-215-448-00 RES,METAL 13K 1% 1/6W.....1-215-449-00 RES,METAL 15K 1% 1/6W

CD-17 BOARD (BVH-2000PS,2180PS/CARD RACK)

C150 NOT IN USE.....1-107-077-00 CAP,MICA 47PF 5% 50V

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UP TO #34999 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35001 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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AP-12 BOARD (BVH-2000PS,2180PS/TTP)

C521,522,523
NOT IN USE.....1-107-158-00 CAP,MICA 30PF 5% 500V

C116,216,316,416 (for 04,14)
1-107-169-00 CAP,MICA 100PF 5% 500V.....1-102-106-00 CAP,MICA 100PF 10% 50V

MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)

C504 NOT IN USE.....1-109-525-00 CAP,MICA 39PF 5% 100V

C507 1-107-158-00 CAP,MICA 30PF 5% 500V.....1-107-077-00 CAP,MICA 47PF 5% 50V

CV4 1-414-256-00 CAP,TRIMMER 20PF.....1-141-260-00 CAP,TRIMMER 60PF

L8 NOT IN USE.....1-407-186-XX INDUCTOR,MICRO 4.7 5%

L9 1-407-182-XX INDUCTOR,MICRO 2.2 5%.....1-407-186-XX INDUCTOR,MICRO 4.7 5%

R118 1-247-839-00 RES,CARBON 2.2K 5% 1/6W.....DELETED

R510 1-247-819-00 RES,CARBON 330 5% 1/6W.....DELETED

R112 1-247-807-00 RES,CARBON 100 5% 1/6W.....1-247-804-00 RES,CARBON 75 5% 1/6W

R121 1-247-804-00 RES,CARBON 75 5% 1/6W.....1-247-817-00 RES,CARBON 270 5% 1/6W

R530 NOT IN USE.....1-247-809-00 RES,CARBON 120 5% 1/6W

R531 NOT IN USE.....1-249-415-11 RES,CARBON 680 5% 1/6W

R532 NOT IN USE.....1-249-420-11 RES,CARBON 1.8K 5% 1/6W

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UP TO #35099 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35101 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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CD-17 BOARD (BVH-2000PS,2180PS/CARD RACK)

IC10,12 8-759-745-60 IC NJM4560D.....8-759-145-58 IC UPC4558C

DT-05 BOARD (BVH-2000PS,2180PS/CARD RACK)

TP1,2,3,4,5,6,7,8,9,10
3-657-703-01 TERMINAL,TP.....3-693-032-01 TERMINAL,TP

CHANGED PARTS

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UP TO #35099 (BVH-2000PS)
UP TO #10799 (BVH-2180PS)
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#35101 & UP (BVH-2000PS)
#10801 & UP (BVH-2180PS)
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CA-09 BOARD (BVH-2000PS,2180PS/TTP)

R140,141

1-214-101-00 RES,METAL 51 1% 1/4W.....1-215-390-00 RES,METAL 51 1% 1/6W

R10 1-214-133-00 RES,METAL 1.1K 1% 1/4W.....1-215-422-00 RES,METAL 1.1K 1% 1/6W

R17 1-214-143-00 RES,METAL 3K 1% 1/4W.....1-215-432-00 RES,METAL 3K 1% 1/6W

R42,64 1-214-147-00 RES,METAL 4.3K 1% 1/4W.....1-215-436-00 RES,METAL 4.3K 1% 1/6W

R39,62 1-214-151-00 RES,METAL 6.2K 1% 1/4W.....1-215-440-00 RES,METAL 6.2K 1% 1/6W

R34,35,36,73,75,76,77

1-214-156-00 RES,METAL 10K 1% 1/4W.....1-215-445-00 RES,METAL 10K 1% 1/6W

R33 1-214-163-00 RES,METAL 20K 1% 1/4W.....1-215-452-00 RES,METAL 20K 1% 1/6W

R18,31 1-214-165-00 RES,METAL 24K 1% 1/4W.....1-215-454-00 RES,METAL 24K 1% 1/6W

R9 1-214-166-00 RES,METAL 27K 1% 1/4W.....1-215-455-00 RES,METAL 27K 1% 1/6W

R27 1-214-173-00 RES,METAL 51K 1% 1/4W.....1-215-462-00 RES,METAL 51K 1% 1/6W

DA-07 BOARD (BVH-2000PS,2180PS/TTP)

R29 1-214-086-00 RES,METAL 12 1% 1/4W.....1-215-375-31 RES,METAL 12 1% 1/6W

R80 1-214-133-00 RES,METAL 1.1K 1% 1/4W.....1-215-422-00 RES,METAL 1.1K 1% 1/6W

R24 1-214-147-00 RES,METAL 4.3K 1% 1/4W.....1-215-436-00 RES,METAL 4.3K 1% 1/6W

R54,55,56,57

1-214-156-00 RES,METAL 10K 1% 1/4W.....1-215-445-00 RES,METAL 10K 1% 1/6W

R82 1-214-166-00 RES,METAL 27K 1% 1/4W.....1-215-455-00 RES,METAL 27K 1% 1/6W

R10 1-214-167-00 RES,METAL 30K 1% 1/4W.....1-215-456-00 RES,METAL 30K 1% 1/6W

R7 1-214-169-00 RES,METAL 36K 1% 1/4W.....1-215-458-00 RES,METAL 36K 1% 1/6W

R8 1-214-170-00 RES,METAL 39K 1% 1/4W.....1-215-459-00 RES,METAL 39K 1% 1/6W

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UP TO #35099 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35101 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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RA-05 BOARD (BVH-2000PS,2180PS/TTP)

R34,35,69,70,190,191, 224,225	1-214-088-00	RES,METAL 15 1% 1/4W.....	1-215-377-00	RES,METAL 15 1% 1/6W
R53,54,56,231,232,233	1-214-096-00	RES,METAL 33 1% 1/4W.....	1-215-385-00	RES,METAL 33 1% 1/6W
R139,145,299,304	1-214-116-00	RES,METAL 220 1% 1/4W.....	1-215-405-00	RES,METAL 220 1% 1/6W
R143,149,298,308,	1-214-125-00	RES,METAL 510 1% 1/4W.....	1-215-414-00	RES,METAL 510 1% 1/6W
R290	1-214-133-00	RES,METAL 1.1K 1% 1/4W.....	1-215-422-00	RES,METAL 1.1K 1% 1/6W
R36,37,39,40,41,42, 196,197,198,199,201, 202	1-214-139-00	RES,METAL 2K 1% 1/4W.....	1-215-428-00	RES,METAL 2K 1% 1/6W
R52,236	1-214-144-00	RES,METAL 3.3K 1% 1/4W.....	1-215-433-00	RES,METAL 3.3K 1% 1/6W
R126,254	1-214-146-00	RES,METAL 3.9K 1% 1/4W.....	1-215-435-00	RES,METAL 3.9K 1% 1/6W
R18,19,20,183,184,185	1-214-148-00	RES,METAL 4.7K 1% 1/4W.....	1-215-437-00	RES,METAL 4.7K 1% 1/6W
R140,141,144,146,300, 301,303,305	1-214-151-00	RES,METAL 6.2K 1% 1/4W.....	1-215-440-00	RES,METAL 6.2K 1% 1/6W
R13,14,15,180,181,182	1-214-154-00	RES,METAL 8.2K 1% 1/4W.....	1-215-443-00	RES,METAL 8.2K 1% 1/6W
R58,74,105,109,114, 120,125,152,155,230, 245,258,260,263,266, 267,296,297	1-214-156-00	RES,METAL 10K 1% 1/4W.....	1-215-445-00	RES,METAL 10K 1% 1/6W
R77,115,228,256	1-214-158-00	RES,METAL 12K 1% 1/4W.....	1-215-447-00	RES,METAL 12K 1% 1/6W
R76,229	1-214-160-00	RES,METAL 15K 1% 1/4W.....	1-215-449-00	RES,METAL 15K 1% 1/6W
R117,259	1-214-162-00	RES,METAL 18K 1% 1/4W.....	1-215-451-00	RES,METAL 18K 1% 1/6W

CHANGED PARTS

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UP TO #35099 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35101 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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(RA-05 BOARD BVH-2000PS,2180PS/TTP)

R16,17,22,163,164,166

1-214-164-00 RES,METAL 22K 1% 1/4W.....1-215-453-00 RES,METAL 22K 1% 1/6W

R293 1-214-166-00 RES,METAL 27K 1% 1/4W.....1-215-455-00 RES,METAL 27K 1% 1/6W

R116,255

1-214-170-00 RES,METAL 39K 1% 1/4W.....1-215-459-00 RES,METAL 39K 1% 1/6W

R21,113,142,147,165,

302,306,311

1-214-180-00 RES,METAL 100K 1% 1/4W.....1-215-469-00 RES,METAL 100K 1% 1/6W

R79,215 1-214-175-00 RES,METAL 62K 1% 1/4W.....1-215-464-00 RES,METAL 62K 1% 1/6W

LG-02(A) BOARD (BVH-2000PS,2180PS/CARD RACK)

IC1A NOT IN USE.....8-759-900-08 IC SN74LS08N

BE-03 BOARD (BVH-2000PS,2180PS/TTP)

C20,21,22,23

1-108-603-00 CAP,MYLAR 0.1 5% 50V.....1-130-495-00 CAP,MYLAR 0.1 5% 50V

MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)

R19,20 1-247-211-00 RES,CARBON 62 5% 1/2W.....1-214-835-00 RES,METAL 62 1% 1/2W

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UP TO #34799 (BVH-2000PS)

UP TO #10699 (BVH-2180PS)

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#34801 & UP (BVH-2000PS)

#10701 & UP (BVH-2180PS)

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SV-43 BOARD (BVH-2000PS,2180PS/CARD RACK)

(BVH-2000PS)

IC1E 8-759-764-37 IC, EPROM, MBM2732-S1U3-7.....8-759-769-76 IC, EPROM, MBM2732-S1U3-9

(BVH-2180PS)

IC1E 8-759-765-69 IC, EPROM, MBM2732-S1Q1-2.....8-759-769-77 IC, EPROM, MBM2732-S1Q1-3

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UP TO #34999 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35001 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

R519 1-215-457-00 RES, METAL 33K 1% 1/6W.....1-215-462-00 RES, METAL 51K 1% 1/6W

R517 1-215-469-00 RES, METAL 100K 1% 1/6W.....1-215-474-00 RES, METAL 160K 1% 1/6W

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UP TO #35199 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35201 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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CONNECTOR PANEL ASSY (BVH-2000PS,2180PS)

1pc 3-673-859-02 LABEL, CONNECTOR.....3-673-859-04 LABEL, CONNECTOR

1pc 3-693-059-01 LABEL (NS) CONNECTOR.....3-693-059-02 LABEL (NS) CONNECTOR

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UP TO #35299 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35301 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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E0-02 BOARD (BVH-2000PS,2180PS/CARD RACK)

(E0-11 BOARD)

CN1 1-564-929-11 PLUG, DIL 14P.....1-566-087-11 PLUG, DIL 14P

CN2 1-564-928-11 PLUG, DIL 8P.....1-566-086-11 PLUG, DIL 8P

AE-03 BOARD (BVH-2000PS,2180PS/CARD RACK)

R90,92 1-247-863-00 RES, CARBON 22K 5% 1/6W.....1-249-429-11 RES, CARBON 10K 5% 1/6W

C55 1-136-156-00 RES, FILM 0.018 5% 50V.....1-136-160-00 CAP, FILM 0.039 5% 50V

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UP TO #35399 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35401 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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SR-15 BOARD (BVH-2000PS,2180PS/CARD RACK)

IC5E 8-759-901-63 IC SN74LS163AN, TTL.....8-759-911-63 IC SN74S163N, TTL

CHANGED PARTS

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UP TO #35499 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35501 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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SY-79 BOARD (BVH-2000PS,2180PS/CARD RACK)

IC1A	NOT IN USE.....	8-759-772-32	IC, EPROM, 2732-77U3-5
IC1C	8-759-764-20 IC, EPROM, 2732-76U3-4.....	8-759-772-31	IC, EPROM, 2732-76U3-5
IC1D	8-759-764-19 IC, EPROM, 2732-75U3-3.....	8-759-772-30	IC, EPROM, 2732-75U3-5
IC1E	8-759-764-18 IC, EPROM, 2732-74U3-3.....	8-759-772-29	IC, EPROM, 2732-74U3-5
IC1G	8-759-764-17 IC, EPROM, 2732-73U3-4.....	8-759-772-28	IC, EPROM, 2732-73U3-5
IC1H	8-759-764-29 IC, EPROM, 2732-72U3-1.....	8-759-772-27	IC, EPROM, 2732-72U3-5
IC1K	8-759-764-13 IC, EPROM, 2732-70U3-4.....	8-759-772-25	IC, EPROM, 2732-70U3-5
IC1I	8-759-764-15 IC, EPROM, 2732-71A3-2.....	8-759-772-33	IC, EPROM, 2732-71A3-5

SY-80 BOARD (BVH-2000PS,2180PS/CARD RACK)

IC1C	8-759-764-23 IC, EPROM, 2732-82U3-3.....	8-759-772-37	IC, EPROM, 2732-82U3-5
IC1D	8-759-764-22 IC, EPROM, 2732-81U3-5.....	8-759-772-36	IC, EPROM, 2732-81U3-6
IC1F	8-759-764-21 IC, EPROM, 2732-80U3-4.....	8-759-772-35	IC, EPROM, 2732-80U3-5

BE-02 BOARD (BVH-2000PS,2180PS/TTP)

C32,33	1-109-573-00 CAP,MICA 470PF 5% 500V.....	1-109-689-00	CAP,MICA 470PF 5% 500V
R80	1-247-823-00 RES,CARBON 470 5% 1/6W.....	1-215-413-00	RES,METAL 470 1% 1/6W
R420	1-247-094-00 RES,CARBON 30 5% 1/4W.....	1-214-096-00	RES,METAL 33 1% 1/4W
R75	1-247-871-00 RES,CARBON 47K 5% 1/6W.....	1-215-461-00	RES,METAL 47K 1% 1/6W
R76	1-247-873-00 RES,CARBON 56K 5% 1/6W.....	1-215-463-00	RES,METAL 56K 1% 1/6W
R18	1-247-887-00 RES,CARBON 220K 5% 1/6W.....	1-215-477-00	RES,METAL 220K 1% 1/6W
R102,202,302,402	1-247-893-00 RES,CARBON 390K 5% 1/6W.....	1-215-415-00	RES,METAL 390K 1% 1/6W
RV10	1-226-277-00 RES,VAR,METAL 10.....	1-230-834-11	RES,VAR,METAL 10
RV1	1-224-934-00 RES,VAR,METAL 100.....	1-230-837-11	RES,VAR,METAL 100
RV2,3,4,5	1-224-936-00 RES,VAR,METAL 500.....	1-230-839-11	RES,VAR,METAL 500
RV9	1-224-936-00 RES,VAR,METAL 20K.....	1-230-844-11	RES,VAR,METAL 20K
TP10(for 04/14 model)	1,2,3,4,5,6,7,8,9, 11,12,13,14,15,16 3-640-328-00	TERMINAL,TP.....	3-657-703-01
		TERMINAL,TP	

FRONT PANEL ASSY (BVH-2000PS,2180PS)

(BVH-2000PS)			
1pc	A-6004-127-B	PANEL ASSY,REEL.....	A-6004-127-C
(BVH-2180PS)			
1pc	A-6004-146-A	PANEL ASSY,REEL.....	A-6004-146-B
1pc	3-673-971-00	COVER,CAPSTAN.....	3-673-971-02

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UP TO #35399 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35401 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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CD-17 BOARD (BVH-2000PS,2180PS/CARD RACK)

TP3 3-657-703-01 TERMINAL,TP.....DELETED

LA-02 BOARD (BVH-2000PS,2180PS/CN PNL)

R42,65 1-247-807-00 RES,CARBON 100 5% 1/6W.....1-215-396-00 RES,METAL 91 1% 1/6W

R41,64,115,215,317,
417(for 04,14)

1-214-132-00 RES,METAL 1K 1% 1/4W.....1-215-421-00 RES,METAL 1K 1% 1/6W

R31,54,105,205,305,
405(for 04,14)

1-214-164-00 RES,METAL 22K 1% 1/4W.....1-215-453-00 RES,METAL 22K 1% 1/6W

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UP TO #35699 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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=====

#35701 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

SW2A 1-516-925-21 SWITCH,DIP,8-CKT.....1-570-623-11 SWITCH,DIP,8-CKT

RV1,13 1-224-943-00 RES,VAR,CERMET 100K.....1-230-846-11 RES,VAR,CERMET 100K

RV3,6,502

1-224-939-00 RES,VAR,CERMET 5K.....1-230-842-11 RES,VAR,CERMET 5K

RV5,8,16

1-224-936-00 RES,VAR,CERMET 500.....1-230-839-11 RES,VAR,CERMET 500

RV9

1-228-288-00 RES,VAR,METAL 100.....1-230-837-11 RES,VAR,METAL 100

RV10,11,15

1-224-941-00 RES,VAR,CERMET 20K.....1-230-844-11 RES,VAR,CERMET 20K

RV12

1-224-942-00 RES,VAR,CERMET 50K.....1-230-845-11 RES,VAR,CERMET 50K

RV14

1-224-937-00 RES,VAR,CERMET 1K.....1-230-840-11 RES,VAR,CERMET 1K

RV501,503

1-224-940-00 RES,VAR,CERMET 10K.....1-230-843-11 RES,VAR,CERMET 10K

CHANGED PARTS

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UP TO #35699 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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=====

#35701 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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VM-01 BOARD (BVH-2000PS,2180PS/CN PNL)

RV1,3	1-224-937-00	RES,VAR,METAL 1K.....	1-230-840-11	RES,VAR,METAL 1K
RV2	1-224-935-00	RES,VAR,METAL 200.....	1-230-838-11	RES,VAR,METAL 200
RV4,6,7,8				
	1-224-936-00	RES,VAR,METAL 500.....	1-230-839-11	RES,VAR,METAL 500

PS-14 BOARD (BVH-2000PS,2180PS/POWER SUPPLY)

RV1,2,3,4,5,6,7,8,9,				
10,11,12,13				
	1-224-940-00	RES,VAR,METAL 10K.....	1-230-843-11	RES,VAR,METAL 10K

RA-05 BOARD (BVH-2000PS,2180PS/TTP)

RV1,6	1-224-939-00	RES,VAR,METAL 5K.....	1-230-842-11	RES,VAR,METAL 5K
RV2,5	1-224-942-00	RES,VAR,METAL 50K.....	1-230-845-11	RES,VAR,METAL 50K

LA-02 BOARD (BVH-2000PS,2180PS/CN PNL)

RV1,2,101,201,301,401(for 04,14)				
	1-224-941-00	RES,VAR,METAL 20K.....	1-230-837-11	RES,VAR,METAL 20K

DD-03 BOARD (BVH-2000PS,2180PS/TTP)

RV1,2	1-228-292-00	RES,VAR,CERMET 2K.....	1-230-841-11	RES,VAR,CERMET 2K
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EQ-02 BOARD (BVH-2000PS,2180PS/CARD RACK)

RV22	1-228-288-00	RES,ADJ,CERMET 100.....	1-230-837-11	RES,ADJ,CERMET 100
RV23,25,28				
	1-228-293-00	RES,ADJ,CERMET 5K.....	1-230-842-11	RES,ADJ,CERMET 5K
RV24	1-228-294-00	RES,ADJ,CERMET 10K.....	1-230-843-11	RES,ADJ,CERMET 10K
RV30	1-228-295-00	RES,ADJ,CERMET 20K.....	1-230-844-11	RES,ADJ,CERMET 20K

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UP TO #35699 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35701 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)

RV2,6,13,21

1-224-939-00 RES,VAR,METAL 5K.....1-230-842-11 RES,VAR,METAL 5K

RV3,22 1-224-940-00 RES,VAR,METAL 10K.....1-230-843-11 RES,VAR,METAL 10K

RV4 1-224-935-00 RES,VAR,METAL 200.....1-230-838-11 RES,VAR,METAL 200

RV7 1-224-936-00 RES,VAR,METAL 500.....1-230-839-11 RES,VAR,METAL 500

RV5 1-224-937-00 RES,VAR,METAL 1K.....1-230-840-11 RES,VAR,METAL 1K

CONNECTOR PANEL ASSY (BVH-2500P)

3pcs 1-509-176-31 RECEP,XLR-3P,MALE.....1-509-176-51 RECEPTACLE 3P,MALE

3pcs 1-509-184-31 RECEP,XLR-3P,FEMALE.....1-509-184-51 RECEPTACLE 3P,MALE

SR-15 BOARD (BVH-2000PS,2180PS/CARD RACK)

TP1,3,4,17,25

3-657-703-01 TERMINAL,TP.....3-693-032-01 TERMINAL,TP

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UP TO #35499 (BVH-2000PS)

UP TO #10799 (BVH-2180PS)

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#35501 & UP (BVH-2000PS)

#10801 & UP (BVH-2180PS)

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SY-80 BOARD (BVH-2000PS,2180PS/CARD RACK)

1C1F 8-759-772-35 IC, EPROM,2732-80U3-5.....8-759-776-20 IC, EPROM,2732-80U3-6

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UP TO #35699 (BVH-2000PS)

UP TO #10899 (BVH-2180PS)

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=====

#35701 & UP (BVH-2000PS)

#10901 & UP (BVH-2180PS)

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AP-12 BOARD (BVH-2000PS,2180PS/TTP)

C521,522,523

1-107-158-00 CAP,MICA 30PF 5% 500V.....DELETED

C11,12,13

NOT IN USE.....1-163-168-00 CAP,CHIP CERAMIC 30PF 5% 50V

C511 1-109-677-00 CAP,MICA 150PF 5% 500V.....1-107-173-00 CAP,MICA 150PF 5% 500V

C688 1-123-298-00 CAP,ELECT 470 6.3V.....1-124-472-11 CAP,ELECT 470 20% 10V

C664,C665 (for 04/14 model)

119,120,219,220,319,

320,504,505,507,508,

604,605,624,625,644,

645 1-123-318-00 CAP,ELECT 33 16V.....1-124-896-00 CAP,ELECT 33 20% 16V

CHANGED PARTS

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UP TO #35699 (BVH-2000PS)
UP TO #10899 (BVH-2180PS)
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=====

#35701 & UP (BVH-2000PS)
#10901 & UP (BVH-2180PS)
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(AP-12 BOARD BVH-2000PS,2180PS/TTP)

C404,670,673(for 04/14 model)

104,204,304,610,613,

630,633,650,653,684,

685 1-123-332-00 CAP,ELECT 47 25V.....1-124-477-11 CAP,ELECT 47 20% 25V

C410,411(for 04/14 model)

1,2,110,111,210,211,

310,311

1-123-333-00 CAP,ELECT 100 25V.....1-124-445-00 CAP,ELECT 100 20% 16V

C689 1-123-356-00 CAP,ELECT 10 50V.....1-124-907-00 CAP,ELECT 10 20% 50V

RY401(for 04/14 model)

101,201,301

1-515-309-00 RELAY,5V 200-OHM.....1-515-518-00 RELAY,5V

RY501 1-515-309-21 RELAY,12V 1K-OHM.....1-515-477-00 RELAY,12V

EQ-02 BOARD (BVH-2000PS,2180PS/CARD RACK)

JP1,2,3 1-560-733-00 PIN,SHORT.....1-566-385-11 PIN,CONNECTOR 2P
2pcs 1-561-832-00 PLUG,SHORT.....1-563-859-11 RECEPTACLE,CONNECTOR 2P

MD-14 BOARD (BVH-2000PS,2180PS/CARD RACK)

JP1,2,3,4,5,6

1-560-733-00 PIN,SHORT.....1-566-385-11 PIN,CONNECTOR 2P

JP1,4,5 1-561-832-00 PLUG,SHORT.....1-563-859-11 RECEPTACLE,CONNECTOR 2P

LG-02(A) BOARD (BVH-2000PS,2180PS/CARD RACK)

JP1,2,3,4,5,6,7,8,9

1-560-733-00 PIN,SHORT.....1-566-385-11 PIN,CONNECTOR 2P

2pcs 1-561-832-00 PLUG,SHORT.....1-563-859-11 RECEPTACLE,CONNECTOR 2P

SY-79 BOARD (BVH-2000PS,2180PS/CARD RACK)

JP1,2,3,4,5,6

1-560-733-00 PIN,SHORT.....1-566-385-11 PIN,CONNECTOR 2P

3pcs 1-561-832-00 PLUG,SHORT.....1-563-859-11 RECEPTACLE,CONNECTOR 2P

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UP TO #35699 (BVH-2000PS)

UP TO #10899 (BVH-2180PS)

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#35701 & UP (BVH-2000PS)

#10901 & UP (BVH-2180PS)

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LA-02 BOARD (BVH-2000PS,2180PS/CN PNL)

JP101,102,103,104,105,
 106,107,201,202,203,
 204,205,206,207,301,
 302,303,304,305,306,
 307 1-560-733-00 PIN,SHORT.....1-566-385-11 PIN,CONNECTOR 2P

12pcs 1-561-832-00 PLUG,SHORT.....1-563-859-11 RECEPTACLE,CONNECTOR 2P

=====

UP TO #35799 (BVH-2000PS)

UP TO #10899 (BVH-2180PS)

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#35801 & UP (BVH-2000PS)

#10901 & UP (BVH-2180PS)

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LEVEL CONTROL PANEL (BVH-2000PS,2180PS)

1pc 1-520-451-00 METER,VIDEO/RF.....1-520-451-12 METER,VIDEO/RF

3pcs 1-520-450-00 METER,VU.....1-520-451-12 METER,VU

=====

UP TO #35699 (BVH-2000PS)

UP TO #10899 (BVH-2180PS)

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=====

#35701 & UP (BVH-2000PS)

#10901 & UP (BVH-2180PS)

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SR-15 BOARD (BVH-2000PS,2180PS/CARD RACK)

C112 NOT IN USE.....1-107-206-00 CAP,MICA 15PF 5% 500V

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UP TO #35799 (BVH-2000PS)

UP TO #10899 (BVH-2180PS)

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=====

#35801 & UP (BVH-2000PS)

#10901 & UP (BVH-2180PS)

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AU-27 BOARD (BVH-2000PS,2180PS/CARD RACK)

C108,208
 1-109-553-00 CAP,MICA 470PF 5% 100V.....1-130-467-00 CAP,MYLAR 470PF 5% 50V

C119,137,151,219,237,
 251 1-109-559-00 CAP,MICA 820PF 5% 100V.....1-130-470-00 CAP,MYLAR 820PF 5% 50V

CHANGED PARTS

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UP TO #35999 (BVH-2000PS)

UP TO #10999 (BVH-2180PS)

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=====

#36001 & UP (BVH-2000PS)

#11001 & UP (BVH-2180PS)

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DM-25 BOARD (BVH-2000PS,2180PS/CARD RACK)

R519	1-215-462-00	RES,METAL 51K 1% 1/6W.....	1-215-464-00	RES,METAL 62K 1% 1/6W
R517	1-215-474-00	RES,METAL 160K 1% 1/6W.....	1-215-476-00	RES,METAL 200K 1% 1/6W

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UP TO #35999 (BVH-2000PS)

UP TO #11099 (BVH-2180PS)

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=====

#36001 & UP (BVH-2000PS)

#11101 & UP (BVH-2180PS)

=====

SY-79 BOARD (BVH-2000PS,2180PS/CARD RACK)

IC1K	8-759-772-25	IC,EPROM,2732-70U3-5.....	8-759-778-55	IC,EPROM,2732-70U3-6
IC1C	8-759-772-31	IC,EPROM,2732-76U3-5.....	8-759-778-56	IC,EPROM,2732-76U3-6

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UP TO #36099 (BVH-2000PS)

UP TO #11499 (BVH-2180PS)

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=====

#36101 & UP (BVH-2000PS)

#11501 & UP (BVH-2180PS)

=====

FRAME (BVH-2000PS,2180PS)

H3	8-825-737-10	HEAD,AUDIO R/P,PA77-5104C.....	8-825-771-01	HEAD PA77-5104F
H4	8-825-737-20	HEAD,AUDIO MONITOR,PA77-5104D.....	8-825-771-01	HEAD PA77-5104F

=====

UP TO #36999 (BVH-2000PS)

UP TO #11599 (BVH-2180PS)

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=====

#37001 & UP (BVH-2000PS)

#11601 & UP (BVH-2180PS)

=====

SY-79 BOARD (BVH-2000PS,2180PS/CARD RACK)

3pcs	1-563-859-11	RECEPTACLE, CONNECTOR 2P.....	1-565-413-11	RECEPTACLE, CONNECTOR 2P
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UP TO #35999 (BVH-2000PS)

UP TO #11499 (BVH-2180PS)

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#36001 & UP (BVH-2000PS)

#11501 & UP (BVH-2180PS)

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BE-03 BOARD (BVH-2000PS-04,14/BVH-2180PS-04,14)

Q17,18,19,20	8-729-606-32	TRANSISTOR 2SC2603.....	8-729-600-27	TRANSISTOR 2SC634-7
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UP TO #36199 (BVH-2000PS)
UP TO #11799 (BVH-2180PS)

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#36201 & UP (BVH-2000PS)
#11801 & UP (BVH-2180PS)

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DD-03 BOARD (BVH-2000PS, 2180PS/TTP)

Q4, 8, 9, 12

8-763-420-00 TRANSISTOR 2SC1762.....8-729-141-78 TRANSISTOR 2SC3632-K

Q5, 16, 17

8-765-141-00 TRANSISTOR 2SA911.....8-729-118-43 TRANSISTOR 2SA1413-L